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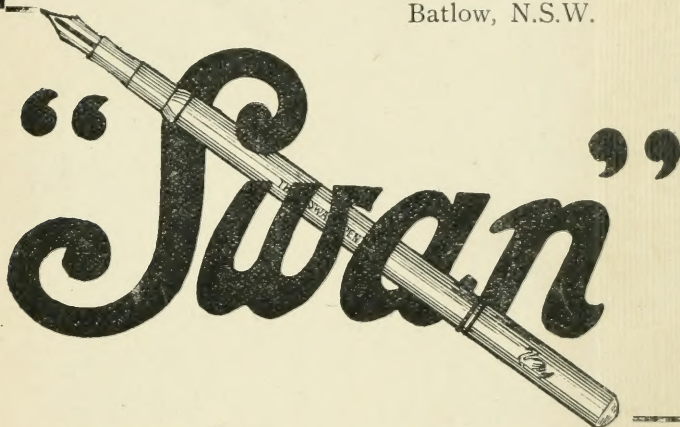
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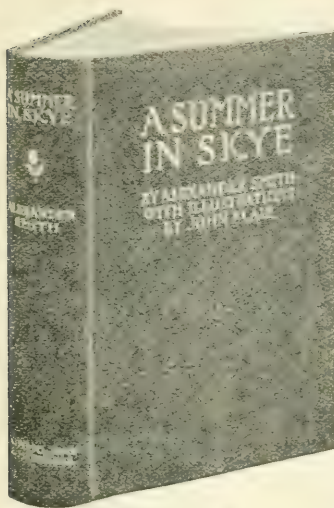
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55 SOUTH BRIDGE

MCMXIV

134456
6/10/14

EDINBURGH UNIVERSITY CALENDAR

The Edinburgh University Calendar for the Academic Year (1st October to 1st October), published annually in August by the authority of the Senatus Academicus, contains Synopses of the Courses of Lectures delivered by the Professors and Lecturers; Regulations and Subjects of Examination for Degrees in Arts, Science, Divinity, Law, Medicine, and Music; Regulations for Education in Military Subjects; Regulations for Diplomas in Education, in Tropical Medicine and Hygiene, and in Psychiatry; Regulations for Certificate in Tropical Diseases; the Annual Graduation Lists; Bursaries, Prizes, Scholarships, Fellowships, and other Endowments of the University; Class Prize and Honours Lists; Benefactions to the University; Statement of the Annual Income and Expenditure of the University; Abstract of the Proceedings of the University Court; List of the University Societies, etc., etc.

The **Calendar** is published by JAMES THIN, 55 SOUTH BRIDGE, EDINBURGH, and may be had through any Bookseller. (Price 3s. ; by Post, 3s. 5d.)

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UNIVERSITY OF EDINBURGH,

August 1914.

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THE CALENDAR

1914 SEPTEMBER. 30 Days.

During the month, the Senatus Offices are open from 10 to 5—closed on Saturdays; the Library and Reading Rooms in the Old Buildings are open from 10 to 5—Sundays 10 to 1; and the Reading-Room in the New Buildings is open from 10 to 5—closed on Saturdays.

1	Tu	
2	W	
3	Th	
4	F	Entries close for Preliminary and Bursary Examinations.
5	Sa	
6	S	
7	M	
8	Tu	
9	W	
10	Th	Bursary Examinations begin (continued to 19th, see p. 105).
11	F	Preliminary Examinations begin (continued to 17th, see p. 104).
12	Sa	
13	S	
14	M	
15	Tu	Entries close for Arts Scholarships.
16	W	
17	Th	
18	F	Entries close for First Professional Examination.
19	Sa	
20	S	
21	M	EDINBURGH HOLIDAY
22	Tu	Entries close for Second Professional Examination.
23	W	Entries close for Third Professional and M.A. Examinations.
24	Th	Entries close for Science and Law Examinations.
25	F	
26	Sa	
27	S	
28	M	M.A. Examinations begin (continued—27th October, see p. 106).
29	Tu	Entries close for B.D.
30	W	

1914—OCTOBER, 31 Days.

Senatus Offices open from 10 to 4—Saturdays 10 to 1.

Library—see page 60, and see below.

1	Th	ANNUS ACADEMICUS begins. Inspection of Library . All books to be returned before this date. Library closed for lending till 8th October. Last day for lodging Theses for M.D. and Ch.M. Examinations in Science begin (continued to 12th, see p. 429). Law Examinations begin (continued to 12th, see p. 491). First Professional and Second Professional Examinations. First Professional and Third Professional Examinations.
2	F	
3	Sa	
4	S	
5	M	
6	Tu	CLASSES IN FACULTY OF MEDICINE OPEN. Examinations for B.D. begin (continued to 9th, see p. 458).
7	W	
8	Th	<i>Meeting of Senatus Academicus at 4 P.M. :—</i> Standing Committees to be appointed.
9	F	
10	Sa	Entries close for Second and Third Year Bursaries in Law.
11	S	
12	M	CLASSES IN FACULTY OF MUSIC OPEN Bursary Examination in Divinity begins. Oral Examinations in Law.
13	Tu	CLASSES IN FACULTIES OF ARTS AND SCIENCE OPEN.
14	W	CLASSES IN FACULTY OF DIVINITY OPEN.
15	Th	CLASSES IN FACULTY OF LAW OPEN. COURT OF SESSION SITS.
16	F	GRADUATION CEREMONIAL, at 10 a.m. <i>A meeting of Senatus Academicus may be held at 9.45 A.M. :—</i> Award of Bursaries.
17	Sa	
18	S	
19	M	<i>Meeting of University Court at 4 P.M.</i>
20	Tu	
21	W	
22	Th	
23	F	
24	Sa	ELECTION OF RECTOR.
25	S	
26	M	
27	Tu	
28	W	
29	Th	
30	F	<i>Meeting of General Council at 3.30 o'clock.</i>
31	Sa	

1914—NOVEMBER, 30 Days.

1	S	
2	M	
3	Tu	
4	W	
5	Th	<i>Meeting of Senatus Academicus at 4 P.M. :—</i> (1) Senatus Budget to be submitted. (2) Report of Moray Endowment Committee.
6	F	
7	Sa	
8	S	
9	M	
10	Tu	
11	W	MARTINMAS.
12	Th	
13	F	Entries close for Final Professional Examination and for M.D. Clinical Examination.
14	Sa	Certificates for Bursaries, etc., granted by Deans. Fellowships, Scholarships, Bursaries, paid by Factor.
15	S	
16	M	<i>Meeting of University Court at 4 P.M.</i>
17	Tu	
18	W	
19	Th	Entries close for Practical Pharmacy Examination.
20	F	
21	Sa	
22	S	
23	M	
24	Tu	Final Professional Examination.
25	W	Final Professional Examination.
26	Th	Final Professional Examination.
27	F	Clinical Examination for M.D.
28	Sa	Clinical Examination for M.D.
29	S	ADVENT SUNDAY.
30	M	Registration of Members of General Council for Register of 1915 ends.

1914—DECEMBER, 31 Days.

1	Tu	QUEEN ALEXANDRA born, 1844. Entries close for Science Examinations.
2	W	
3	Th	<i>Meeting of Senatus Academicus at 4 P.M. :—</i> (1) Election of Deans of Faculties. (2) Election of Managers for Royal Infirmary. (3) Report to Widows' Fund. (4) Arrangements for Academic Year 1915-1916. Entries close for M.A. (Geology) Examination. Final Professional Clinical Examinations begin.
4	F	
5	Sa	
6	S	
7	M	Final Science Exams. begin (continued to 9th and on 17th). M.A. (Geology) Examination.
8	Tu	
9	W	
10	Th	
11	F	Practical Pharmacy Examination.
12	Sa	
13	S	
14	M	<i>Meeting of University Court at 4 P.M.</i>
15	Tu	
16	W	
17	Th	
18	F	GRADUATION CEREMONIAL IN MEDICINE, at 10 a.m. CLASSES IN FACULTIES OF ARTS, SCIENCE, DIVINITY, MEDICINE, AND MUSIC CLOSE. Senatus Offices open from 10 to 1, till 6th January—closed on Christmas, New Year's Day, and Saturdays. Library, including Reading-Rooms at Old Buildings, open from 10 to 1, till 5th January—closed on Saturdays. Reading-Room, New Buildings, closed for same period.
19	Sa	CLASSES IN FACULTY OF LAW CLOSE.
20	S	
21	M	
22	Tu	
23	W	
24	Th	
25	F	CHRISTMAS DAY.
26	Sa	
27	S	
28	M	
29	Tu	
30	W	
31	Th	

1915—JANUARY, 31 Days.

1	F	
2	Sa	
3	S	
4	M	CLASSES IN FACULTY OF MUSIC MEET AFTER THE CHRISTMAS VACATION.
5	Tu	CLASSES IN FACULTIES OF MEDICINE, DIVINITY, AND LAW MEET AFTER THE CHRISTMAS VACATION.
6	W	
7	Th	
8	F	Entries close for Economic Science (Agric.) Examination.
9	Sa	
10	S	
11	M	
12	Tu	CLASSES IN FACULTIES OF ARTS AND SCIENCE MEET AFTER THE CHRISTMAS VACATION. Economic Science (Agric.) Examination.
13	W	
14	Th	<i>Meeting of Senatus Academicus at 4 P.M. :—</i> (1) Nominations for D.D. and I.L D. Degrees to be invited. (2) Report of Moray Endowment Committee.
15	F	
16	Sa	
17	S	
18	M	<i>Meeting of University Court at 4 P.M.</i>
19	Tu	
20	W	
21	Th	
22	F	
23	Sa	
24	S	
25	M	<i>Meeting of University Court for hearing Registration Appeals (if any) at 4 P.M.</i>
26	Tu	
27	W	
28	Th	
29	F	
30	Sa	
31	S	

1915—FEBRUARY, 28 Days.

1	M
2	Tu
3	W
4	Th
5	F
6	Sa
7	S
8	M
9	Tu
10	W
11	Th
12	F
13	Sa
14	S
15	M
16	Tu
17	W
18	Th
19	F
20	Sa
21	S
22	M
23	Tu
24	W
25	Th
26	F
27	Sa
28	S

CANDLEMAS.*Meeting of Senatus Academicus at 4 P.M. :—*

- (1) Resolution to Elect Member of General Assembly.
- (2) Annual Report on University Library.

HOLIDAY IN FACULTY OF ARTS.*Meeting of University Court at 4 P.M.*

1915—MARCH, 31 Days.

1	M	Entries close for Preliminary Examinations. Entries close for Science Examinations. Entries close for Music Examinations.
2	Tu	Entries close for Scholarships in Arts and Science.
3	W	Entries close for M.A. Examinations.
4	Th	<i>Meeting of Senatus Academicus at 4 P.M. :—</i> (1) Report of D.D. Committee to be presented. (2) Report of LL.D. Committee to be presented. (3) Appoint Member of Assembly. (4) Appoint Representatives on Univ. Field Committee.
5	F	Entries close for Law Examinations. UNIVERSITY MUSICAL SOCIETY'S CONCERT.
6	Sa	Applications for Grants from Dickson Travelling Fund to be lodged.
7	S	
8	M	Entries close for First Professional Examination. Science Examinations begin (continued to 20th).
9	Tu	Entries close for B.D.
10	W	Entries close for Third Prof. and Pract. Pharmacy Exams.
11	Th	
12	F	CLASSES IN FACULTIES OF DIVINITY AND MUSIC CLOSE. Entries close for Second Professional Examination. M.A. Honours Examinations begin (continued to 19th, see p. 239). Preliminary Examinations begin (continued to 18th, see p. 104).
13	Sa	
14	S	
15	M	M.A. (Ord.) and Law Examinations begin (continued to 22nd, see p. 239 and p. 491). <i>Meeting of University Court at 4 P.M.</i>
16	Tu	Examinations for B.D. begin (continued to 19th, see p. 458) Practical Pharmacy Examination.
17	W	CLASSES IN FACULTY OF MEDICINE CLOSE.
18	Th	First Professional Examination.
19	F	CLASSES IN FACULTIES OF ARTS AND SCIENCE CLOSE. First and Second Professional Examinations.
20	Sa	Third Professional Examination. CLASSES IN FACULTY OF LAW CLOSE.

1915—MARCH—continued.

21	S	
22	M	Oral Examinations in Law.
23	Tu	
24	W	
25	Th	<i>Meeting of Senatus Academicus at 4 P.M. :—</i> (1) Report of D.D. Committee to be moved. (2) Report of LL.D. Committee to be moved. (3) Grants made from William Dickson Travelling Fund.
26	F	
27	Sa	
28	S	
29	M	Library open from 10 to 3, and Reading-Room, New Buildings, open from 10 to 1, till 20th April—closed on Saturdays.
30	Tu	GRADUATION CEREMONIAL, at 10 a.m. Senatus Offices open from 10 to 1, till 20th April—closed on Saturdays
31	W	Last day for lodging Theses for M.D. and Ch.M

1915—APRIL, 30 Days.

1	Th	
2	F	GOOD FRIDAY —Holiday.
3	Sa	
4	S	EASTER SUNDAY.
5	M	
6	Tu	
7	W	
8	Th	
9	F	
10	Sa	
11	S	
12	M	
13	Tu	
14	W	
15	Th	
16	F	
17	Sa	
18	S	
19	M	EDINBURGH HOLIDAY. <i>Meeting of University Court at 4 P.M.</i>
20	Tu	CLASSES IN FACULTIES OF ARTS, SCIENCE, AND MEDICINE OPEN.
21	W	
22	Th	
23	F	
24	Sa	
25	S	
26	M	
27	Tu	
28	W	
29	Th	
30	F	

1915—MAY, 31 Days.

1	Sa	
2	S	
3	M	
4	Tu	
5	W	<i>Meeting of University General Council at 3.30 P.M.</i>
6	Th	ACCESSION OF KING GEORGE V., 1910. <i>Meeting of Senatus Academicus at 4 P.M. :—</i> Report of Moray Endowment Committee.
7	F	
8	Sa	
9	S	
10	M	
11	Tu	Entries close for Final Professional Examination.
12	W	
13	Th	CLASSES IN FACULTY OF LAW OPEN.
14	F	
15	Sa	WHITSUNDAY TERM.
16	S	
17	M	HOLIDAY. <i>Meeting of University Court at 4 P.M.</i>
18	Tu	VICTORIA DAY. GENERAL ASSEMBLY MEETS. HOLIDAY. Fellowships, Scholarships, Bursaries paid by Factor.
19	W	
20	Th	
21	F	Final Professional Examination. Entries close for M.D. Clinical Examination.
22	Sa	Final Professional Examination.
23	S	WHITSUNDAY.
24	M	
25	Tu	
26	W	QUEEN MARY born, 1867.
27	Th	
28	F	Entries for M.A. Honours Examination.
29	Sa	
30	S	TRINITY SUNDAY.
31	M	

1915—JUNE, 30 Days.

1	Tu	Entries close for Science Examinations. M.A. Honours Examinations begin (cont. to 17th, see p. 240).
2	W	
3	Th	KING GEORGE V. born, 1865. <i>Meeting of Senatus Academicus at 4 P.M.</i>
4	F	Clinical Examination for M.D.
5	Sa	Clinical Examination for M.D. Entries close for M.A. Ordinary Examinations.
6	S	
7	M	Clinical Examination for M.D. Science Examinations begin (cont. to 6th July, see p. 430).
8	Tu	Clinical Examination for M.D.
9	W	
10	Th	M.A. Ordinary Examinations begin (cont. to 28th, see p. 241).
11	F	Final Professional Clinical Examinations begin.
12	Sa	
13	S	
14	M	<i>Meeting of University Court at 4 P.M.</i>
15	Tu	
16	W	
17	Th	Entries close for Arts Bursary Examinations.
18	F	CLASSES IN FACULTIES OF ARTS AND SCIENCE CLOSE. Entries close for Third Prof. and Pract. Pharmacy Exams.
19	Sa	
20	S	
21	M	
22	Tu	PRINCE OF WALES born, 1894. Arts Bursary Examinations begin (cont. to 1st July, see p. 293). Entries close for Forensic Medicine and Public Health Exams.
23	W	
24	Th	Entries close for First Professional Examination.
25	F	
26	Sa	Entries close for Second Professional Examination.
27	S	
28	M	
29	Tu	
30	W	

1915—JULY, 31 Days.

1	Th	<i>Meeting of Senatus Academicus at 4 P.M.</i> Practical Pharmacy Examination.
2	F	GRADUATION CEREMONIAL IN ARTS, ETC., AT 10 a.m.
3	Sa	CLASSES IN FACULTY OF MEDICINE CLOSE.
4	S	First and Final Professional Examinations.
5	M	First and Second Professional Examinations.
6	Tu	KING GEORGE V. married, 1893. Second and Third Professional Examinations.
7	W	
8	Th	
9	F	
10	Sa	
11	S	
12	M	<i>Meeting of University Court at 4 P.M.</i>
13	Tu	
14	W	<i>Meeting of Senatus Academicus at 4 P.M.</i>
15	Th	GRADUATION CEREMONIAL IN MEDICINE, SCIENCE, ETC., AT 10 a.m. COMMEMORATION SERVICE IN ST GILES'S, AT 12 NOON. Senatus Offices open from 10 to 1, till 1st October—closed on Saturdays. Library open from 10 to 3, till 1st August.
16	F	
17	Sa	
18	S	
19	M	
20	Tu	CLASSES IN FACULTY OF LAW CLOSE.
21	W	
22	Th	
23	F	
24	Sa	
25	S	
26	M	
27	Tu	
28	W	
29	Th	
30	F	
31	Sa	

1915—AUGUST, 31 Days.

During the month, the **Senatus Offices** are open from 10 to 1—closed on Saturdays; the **Library** and **Reading-Rooms** in the Old Buildings are open from 10 to 1, till 1st September—closed on Saturdays; and the **Reading-Room** in the New Buildings is closed.

1	S	
2	M	LAMMAS.
3	Tu	
4	W	
5	Th	
6	F	
7	Sa	
8	S	
9	M	
10	Tu	
11	W	
12	Th	
13	F	
14	Sa	
15	S	
16	M	
17	Tu	
18	W	
19	Th	
20	F	
21	Sa	
22	S	
23	M	
24	Tu	
25	W	
26	Th	
27	F	
28	Sa	
29	S	
30	M	
31	Tu	

1915—SEPTEMBER, 30 Days.

During the month, the **Senatus Offices** are open from 10 to 1—closed on Saturdays; the **Library** and **Reading-Rooms** in the Old Buildings are open from 10 to 3—Saturdays 10 to 1; and the **Reading-Room** in the New Buildings is open from 10 to 1—closed on Saturdays.

1	W	
2	Th	
3	F	
4	Sa	
5	S	
6	M	
7	Tu	
8	W	
9	Th	
10	F	Entries <i>may</i> close for Preliminary Examinations.
11	Sa	
12	S	
13	M	
14	Tu	Entries close for Arts Scholarships.
15	W	
16	Th	
17	F	Preliminary Examinations <i>may</i> begin.
18	Sa	
19	S	
20	M	EDINBURGH HOLIDAY.
21	Tu	
22	W	
23	Th	
24	F	
25	Sa	
26	S	
27	M	M.A. Examinations <i>may</i> begin.
28	Tu	
29	W	
30	Th	

Calendar for Academic Year 1915-16

OCTOBER 1915

S 3 10 17 24 31
 M 4 11 18 25
 Tu 5 12 19 26
 W 6 13 20 27
 Th 7 14 21 28
 Fr 1 8 15 22 29
 Sa 2 9 16 23 30

NOVEMBER 1915

S 7 14 21 28
 M 1 8 15 22 29
 Tu 2 9 16 23 30
 W 3 10 17 24
 Th 4 11¹ 18 25
 Fr 5 12 19 26
 Sa 6 13 20 27

DECEMBER 1915

S 5 12 19 26
 M 6 13 20 27
 Tu 7 14 21 28
 W 1 8 15 22 29
 Th 2 9 16 23 30
 Fr 3 10 17 24 31
 Sa 4 11 18 25

JANUARY 1916

S 2 9 16 23 30
 M 3 10 17 24 31
 Tu 4 11 18 25
 W 5 12 19 26
 Th 6 13 20 27
 Fr 7 14 21 28
 Sa 1 8 15 22 29

FEBRUARY 1916

S 6 13 20 27
 M 7 14² 21 28
 Tu 1 8 15 22 29
 W 2 9 16 23
 Th 3 10 17 24
 Fr 4 11 18 25
 Sa 5 12 19 26

MARCH 1916

S 5 12 19 26
 M 6 13 20 27
 Tu 7 14 21 28
 W 1 8 15 22 29
 Th 2 9 16 23 30
 Fr 3 10 17 24 31
 Sa 4 11 18 25

APRIL 1916

S 2 9 16 23 30
 M 3 10 17³ 24
 Tu 4 11 18 25
 W 5 12 19 26
 Th 6 13 20 27
 Fr 7 14 21⁴ 28
 Sa 1 8 15 22 29

MAY 1916

S 7 14 21 28
 M 1 8 15⁵ 22 29
 Tu 2 9 16 23 30
 W 3 10 17 24 31
 Th 4 11 18 25
 Fr 5 12 19 26
 Sa 6 13 20 27

JUNE 1916

S 4 11 18 25
 M 5 12 19 26
 Tu 6 13 20 27
 W 7 14 21 28
 Th 1 8 15 22 29
 Fr 2 9 16 23 30
 Sa 3 10 17 24

JULY 1916

S 2 9 16 23 30
 M 3 10 17 24 31
 Tu 4 11 18 25
 W 5 12 19 26
 Th 6 13 20 27
 Fr 7 14 21 28
 Sa 1 8 15 22 29

AUGUST 1916

S 6 13 20 27
 M 7 14 21 28
 Tu 1 8 15 22 29
 W 2 9 16 23 30
 Th 3 10 17 24 31
 Fr 4 11 18 25
 Sa 5 12 19 26

SEPTEMBER 1916

S 3 10 17 24
 M 4 11 18³ 25
 Tu 5 12 19 26
 W 6 13 20 27
 Th 7 14 21 28
 Fr 1 8 15 22 29
 Sa 2 9 16 23 30

¹ Martinmas Term.

² Holiday in Faculty of Arts.

³ Edinburgh Holiday.

⁴ Good Friday

⁵ Whitsunday Term.

ADDRESSES OF THE PRINCIPAL, PROFESSORS, PROFESSORS EMERITI AND RESIGNED, AND UNIVERSITY LECTURERS.

I. PRINCIPAL AND PROFESSORS.

Principal Sir William Turner, 6 Eton Terrace.

Professor Bayley Balfour, Inverleith House.

- „ Barkla, 34 Priestfield Road.
- „ Hudson Beare, 10 Regent Terrace.
- „ Baldwin Brown, 25 Coates Gardens.
- „ Hume Brown, 20 Corrennie Gardens.
- „ Caird, 13 Charlotte Square.
- „ Sir J. Halliday Croom, 25 Charlotte Square.
- „ Darroch, 12 Abbotsford Park.
- „ Eggeling, Brunstane House, Joppa, Midlothian.
- „ Ewart, Craigiefield, Penicuik.
- „ Sir Thomas R. Fraser, 13 Drumsheugh Gardens.
- „ Sir Ludovic J. Grant, Bart., 4 Belgrave Crescent.
- „ Hardie, 4 Chalmers Crescent.
- „ Jehu, The University.
- „ Kennedy, 33 Fountainhall Road.
- „ Harvey Littlejohn, 11 Rutland Street.
- „ Lodge, 25 Hope Terrace.
- „ James Mackinnon, 12 Lygon Road.
- „ Mackintosh, 49 Northumberland Street.
- „ Mair, 9 Corrennie Drive.
- „ Millar, 10 Abercromby Place.
- „ Mounsey, 24 Glencairn Crescent.
- „ Nicholson, 3 Belford Park.
- „ Paterson, 3 Royal Terrace.
- „ Patrick, 6 Dick Place.
- „ Pringle Pattison, 16 Churchill.
- „ Rankine, 23 Ainslie Place.
- „ Ritchie, 10 Succoth Gardens.

- Professor Robinson, 35 Coates Gardens.
 " Russell, 3 Walker Street.
 " Saintsbury, 2 Eton Terrace.
 " Sampson, Royal Observatory, Blackford Hill.
 " Sir Edward A. Schäfer, North Berwick.
 " Seth, 13 Corrennie Gardens.
 " Lorrain Smith, 11 Bruntsfield Crescent.
 " Hunter Stewart, 5 Grosvenor Gardens.
 " Thomson, 39 Drumsheugh Gardens.
 " Tovey, The University.
 " Walker, 5 Wester Coates Road.
 " Wallace, 45 East Claremont Street.
 " Watson, 17 Merchiston Avenue.
 " Whittaker, 35 George Square.
 " Wyllie, 44 Charlotte Square.

II. PROFESSORS EMERITI.

- Alexander Crum Brown, M.D., D.Sc., LL.D. (formerly Professor of Chemistry), 8 Belgrave Crescent, Edinburgh.
 John Chiene, C.B., M.D., LL.D. (formerly Professor of Surgery), Aithernie, Davidson's Mains.
 Alexander Campbell Fraser, Fellow of British Academy, D.C.L., LL.D., Litt.D. (formerly Professor of Logic and Metaphysics), 34 Melville Street, Edinburgh.
 James Geikie, D.C.L., LL.D. (formerly Professor of Geology), Kilomrie, Colinton Road, Edinburgh.
 William Smith Greenfield, M.D., LL.D. (formerly Professor of Pathology), Kirkbrae, Elie, Fife.
 John Kirkpatrick, LL.B., LL.D. (formerly Professor of Constitutional Law and History), 53 Clarendon Villas, Hove, Sussex.
 Donald Mackinnon, M.A. (formerly Professor of Celtic), 15 Corrennie Gardens, Edinburgh.
 Frederick Niecks, Mus.D. (formerly Professor of Music), 40 George Square, Edinburgh.
 Sir Alexander Russell Simpson, M.D., D.Sc., LL.D. (formerly Professor of Midwifery), 52 Queen Street, Edinburgh.
 Malcolm Campbell Taylor, D.D., LL.D. (formerly Professor of Ecclesiastical History), 6 Greenhill Park, Edinburgh.
 Sir William Turner, K.C.B., D.C.L., LL.D., etc., etc., Principal of the University (formerly Professor of Anatomy).

III. PROFESSORS RESIGNED.

Sir Archibald Geikie, LL.D. (formerly Professor of Geology). Shepherd's Down, Haslemere, Surrey.

Henry Goudy, LL.D. (formerly Professor of Civil Law). now Professor of Civil Law, University, Oxford.

Sir Henry Duncan Littlejohn, M.D., LL.D. (formerly Professor of Forensic Medicine), 24 Royal Circus, Edinburgh.

George Walter Prothero, LL.D., Editor of *The Quarterly Review* (formerly Professor of History), 24 Bedford Square, London, W.C.

IV. UNIVERSITY LECTURERS.

Henry Aitken, K.C., 38 Melville Street.

J. H. Ashworth, D.Sc., 4 Cluny Terrace.

A. H. Freeland Barbour, M.A., M.D., LL.D., 4 Charlotte Square.

Henry Barker, M.A., Cairnmuir Road, Corstorphine.

J. Beard, D.Sc., Ph.D., 8 Barnton Terrace.

Henri Bergson, Collège de France, Paris.

A. W. Borthwick, D.Sc., 46 George Square.

F. D. Boyd, M.D., 22 Manor Place.

O. C. Bradley, M.D., D.Sc., 23 Fountainhall Road.

N. T. Brewis, M.B., 6 Drumsheugh Gardens.

J. J. Graham Brown, M.D., 3 Chester Street.

A. Ninian Bruce, M.D., D.Sc., 8 Ainslie Place.

Hector Burn-Murdoch, B.A., 18 Castle Street.

Robert Campbell, M.A., D.Sc., 7 Muirend Avenue, Juniper Green.

George A. Carse, M.A., D.Sc., 3 Middleby Street.

Charles W. Cathcart, M.B., 44 Melville Street.

George G. Chisholm, M.A., B.Sc., 12 Hallhead Road.

John D. Comrie, M.A., B.Sc., M.D., 25 Manor Place.

William Cramer, Ph.D., D.Sc., 10 Dryden Place.

A. C. Cumming, D.Sc., 16 Kilmaurs Terrace.

A. D. Darbishire, M.A., University.

R. C. Davie, M.A., B.Sc., Royal Botanic Garden.

Leonard Dobbin, Ph.D., 6 Wilton Road.

A. M. Drennan, M.B., 3 Midmar Avenue.

James Drever, M.A., B.Sc., 36 Morningside Grove.

Hans F. Eggeling, M.A., 95 Comiston Drive.

T. M. Finlay, M.A., B.Sc., University.

Rev. R. H. Fisher, D.D., 49 Manor Place.

Frederick Gardiner, M.D., 60 George Square.

David Gibb, M.A., B.Sc., 15 South Lauder Road.

- A. F. Giles, M.A., 71 Merchiston Crescent.
William Gordon, B.Sc., A.M.I.Mech.E., 3 Wellington Street.
J. M. Graham, M.B., Ch.B., 5 Castle Terrace.
J. B. Guild, M.A., 7 Maurice Place.
G. Lovell Gulland, M.D., 11 Chester Street.
Robert P. Hardie, M.A., 13 Palmerston Road.
David Playfair Heatley, West Mains House, Mayfield.
J. W. B. Hodsdon, M.D., C.M., 6 Chester Street.
Ellice Martin Horsburgh, M.A., B.Sc., A.M.I.C.E., 11 Granville Terrace.
Charles R. A. Howden, M.A., 27 Drummond Place.
Alexander James, M.D., 14 Randolph Crescent.
E. B. Jamieson, M.D., Anatomy Department.
Captain Henry Melvill Johnstone, R.E., Somnerfield Lodge, Haddington.
Claude B. Ker, M.D., City Hospital, Colinton Mains.
Walter Hume Kerr, M.A., B.Sc., University.
George Kitchin, M.A., B.Lit., 19 Royal Circus.
Cargill G. Knott, M.A., D.Sc., 42 Upper Gray Street.
W. J. Lewis, B.L., S.S.C., 24 Craigmillar Park.
R. Stewart MacDougall, M.A., D.Sc., 9 Dryden Place.
Rev. Bruce M'Ewen, B.D., D.Phil., Old Aberdeen.
John E. Mackenzie, Ph.D., D.Sc., 2 Ramsay Garden.
Allan M'Neil, S.S.C., 3 Hermitage Drive.
Major D. G. Marshall, M.B., I.M.S., 25 Buckingham Terrace.
Henry W. Meikle, M.A., D.Litt., 44 Leamington Terrace.
Alexander Miles, M.D., 20 Walker Street.
James Mill, M.A., 4 Bellevue Terrace.
J. R. Milne, D.Sc., 11 Melville Crescent.
James Munro, M.A., Park Villa, Liberton.
Sir R. W. Philip, M.A., M.D., 45 Charlotte Square.
J. Lyford Pike, B.Sc., Rosetta, Liberton.
Harold Pringle, M.D., 45 Grange Road.
Harry Rainy, M.D., 16 Great Stuart Street.
J. F. Rees, M.A., 10 Gillespie Crescent.
R. L. G. Ritchie, M.A., D.Litt. (Paris), 55 Falcon Road.
Edward Robertson, M.A., B.D., D.Litt., 11 Arden Street.
G. M. Robertson, M.D., Tipperlinn House, Morningside Place.
Charles Sarolea, Ph.D., D.Litt., 21 Royal Terrace.
Otto Schlapp, Ph.D., 54A George Square.
William Cameron Sillar, M.D., B.Sc., 2 Lockharton Gardens.
J. L. S. Smith, M.A., B.Sc., Royal Botanic Garden.
W. G. Smith, M.A., Ph.D., 139 Craiglea Drive.
E. P. Stebbing, Hollycot House, Lasswade.
Harold Jalland Stiles, M.B., C.M., 9 Great Stuart Street.

- W. G. Sym, M.D., 12 Alva Street.
John Tait, D.Sc., M.D., 44 Viewforth Terrace.
William White Taylor, M.A., D.Sc., Hillmount, Braeside, Liberton.
John Thomson, M.D., 14 Coates Crescent.
H. J. W. Tillyard, M.A., 12 Queen's Bay Crescent, Joppa.
J. B. Todd, B.Sc., A.M.I.Mech.E., University.
A. Logan Turner, M.D., 27 Walker Street.
Charles Tweedie, M.A., B.Sc., University.
Norman Walker, M.D., 7 Manor Place.
David Wallace, M.B., C.M., 29 Charlotte Square.
J. A. S. Watson, B.Sc., 15 Dick Place.
A. Blyth Webster, M.A., 25 Kingsburgh Road.
Malcolm Wilson, D.Sc., 31 Wardie Road.
Philip F. Wood, M.A., B.C.L., LL.B., 13 Great Stuart Street.

UNIVERSITY OFFICIALS.

Date of Institution.	CHANCELLOR.	Appointed
1859	RIGHT HON. ARTHUR JAMES BALFOUR, M.P., D.C.L., LL.D.	1891

VICE-CHANCELLOR.

1859	PRINCIPAL SIR WILLIAM TURNER, K.C.B., K.B.O. pour le Mérite, D.C.L., LL.D., D.Sc., M.B., ETC.	1903
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RECTOR.

1859		
	PRINCIPAL.	
1582	SIR WILLIAM TURNER, K.C.B., K.B.O. pour le Merite, D.C.L., LL.D., D.Sc., M.B., ETC.	1903

REPRESENTATIVE IN PARLIAMENT.

1868	SIR ROBERT B. FINLAY, M.D., LL.D.	1910
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UNIVERSITY COURT.

President—THE RECTOR, *Ex officio*.

THE PRINCIPAL ..	<i>Ex officio</i> .	
THE RIGHT HON. THE LORD PRO- VOST of Edinburgh ..	<i>Ex officio</i> .	
THE HON. LORD DUNDAS, LL.D., D.L. ..	Assessor nominated by Chancellor ..	1901
JAMES WALKER, C.A. ..	Do. do. Rector ..	1907
BAILIE J. M. RUSK, S.S.C. ..	Do. elected by Town Council ..	1913
DAVID FOWLER LOWE, M.A., LL.D. ..	Do. do. General Council	1903
R. M'KENZIE JOHNSTON, M.D. ..	Do. do. do.	1903
DAVID D. BUCHAN, LL.B., S.S.C. ..	Do. do. do.	1909
GEORGE A. BERRY, M.B. ..	Do. do. do.	1911
PROFESSOR JOHN RANKINE, K.C., M.A., LL.D. ..	Do. do. Senatus ..	1901
PROFESSOR THOMAS HUDSON BEARE, B.A., B.Sc., M.I.C.E. ..	Do. do. do.	1908
PROFESSOR LODGE, M.A., LL.D. ..	Do. do. do.	1911
PROFESSOR HARVEY LITTLEJOHN, M.A., M.B., B.Sc. ..	Do. do. do.	1913

Secretary—Emeritus Professor TAYLOR, D.D., LL.D.

Secretary's Clerk—GEORGE CAMPBELL.

Typist—JEAN G. DOBIE, M.A.

Factor and Law Agent—Sir HENRY COOK, W.S.

Auditor—C. E. W. MACPHERSON, C.A.

CURATORS OF PATRONAGE.

				Appointed.
PRINCIPAL SIR WILLIAM TURNER,	}	Elected by University Court		.. 1906
K.C.B., D.C.L., M.B., LL.D.				.. 1902
THE HON. LORD DUNDAS, LL.D., D.L.		Elected by	do. ..	.. 1911
DAVID FOWLER LOWE, M.A., LL.D.		Elected by	do. ..	.. 1912
RIGHT HON. THE LORD PROVOST ..		Elected by Town Council	..	.. 1910
COUNCILLOR HARRISON ..		Elected by	do. ..	.. 1912
DEAN OF GUILD CARTER ..		Elected by	do. ..	.. 1913
TREASURER LORNE MACLEOD ..		Elected by	do. ..	.. 1913

Secretary—A. B. FLEMING, W.S., 4 Albyn Place.

SENATUS ACADEMICUS.

President—THE PRINCIPAL.

Secretary—Professor Sir LUDOVIC J. GRANT, Bart., B.A., LL.D.

FACULTY OF ARTS.

Dean—Professor RICHARD LODGE, M.A., LL.D.

Date of Institution.	Chairs.	Professors.	Appointed.	Patrons.
1760	Rhetoric and English Literature	GEO. SAINTSBURY, M.A., LL.D., D.Litt.	1895	Crown.
1583	Humanity	WILLIAM ROSS HARDIE, M.A., LL.D.	1895	{ Lds. of Ses., Cur., Fac. of Adv., and W.S. Society. ¹
1583	Greek	ALEXANDER WILLIAM MAIR, M.A., Litt.D.	1903	
1642	Hebrew and Semitic Languages	ARCH. ROBT. STIRLING KENNEDY, B.D., D.D.	1895	Curators.
1862	Sanskrit and Comparative Philology ²	JULIUS EGGELING, Ph.D.	1875	Crown.
1882	Celtic Languages, Literature, History, and Antiquities ³	WILLIAM JOHN WATSON, M.A., LL.D.	1914	Curators.
1583	Mathematics	EDMUND TAYLOR WHITTAKER, M.A., F.R.S., Sc.D.	1912	Curators.
1583	Natural Philosophy ..	CHAS. GLOVER BARKLA, M.A., D.Sc., F.R.S.	1913	Curators.
1583	Logic and Metaphysics	A. S. PRINGLE PATTERSON, M.A., LL.D.	1891	Curators.
1583	Moral Philosophy ..	JAMES SETH, M.A. ..	1898	Curators.
1719	Constitutional Law and Constitutional History	J. H. MILLAR, B.A., LL.B.	1909	Fac. of Adv., and Cur.
1893	History	R. LODGE, M.A., LL.D.	1899	University Court.
1901	Ancient History and Palaeography ⁴	PETER HUME BROWN, M.A., LL.D.	1901	University Court.
1694	Ecclesiastical History ..	JAMES MACKINNON, M.A., Ph.D., D.D.	1908	Crown

¹ The Judges of the Court of Session nominate two Delegates, the Curators two, the Faculty of Advocates one, and the Society of Writers to the Signet one. These Delegates appoint the Professor, who receives his Commission from the Curators.

² This Chair was originally endowed by John Muir, of the Bengal Civil Service, and by a Parliamentary vote.

³ Originally endowed, 1882, with a sum of £14,000, raised by public subscription.

⁴ Sir William Fraser Chair.

Date of Institution.	Chairs.	Professors.	Appointed.	Patrons.
1871	Commercial and Political Economy and Mercan- tile Law ¹	JOSEPH SHIELD NICHOL- SON, M.A., D.Sc.	1880	Civil and Merch. Co.
1879	Fine Art ²	GERARD BALDWIN BROWN, M.A.	1880	Univ. Ct., Pres. R. Scott. Acad.
1876	Theory, History, and Practice of Education ³	ALEXANDER DARROCH, M.A.	1903	Curators.

FACULTY OF SCIENCE.

Dean—Professor HUDSON BEARE, B.A., B.Sc., M.I.C.E.

1583	Mathematics	EDMUND TAYLOR WHIT- TAKER, M.A., F.R.S., Sc.D.	1912	Curators.
1583	Natural Philosophy ..	CHARLES GLOVER BARKLA, M.A., D.Sc., F.R.S.	1913	Curators.
1786	Astronomy	RALPH ALLEN SAMUELSON, M.A., D.Sc., F.R.S.	1910	Crown.
1713	Chemistry	JAMES WALKER, D.Sc., F.R.S.	1908	Curators.
1767	Natural History	JAMES COSSAR EWART, M.D., F.R.S.	1882	Curators.
1676	Botany	ISAAC BAYLEY BALFOUR, M.D., D.Sc., F.R.S.	1888	Crown.
1705	Anatomy	ARTHUR ROBINSON, M.D.	1909	Curators.
1685	Physiology	Sir EDWARD ALBERT SCHAFER, F.R.S.	1899	Curators.
1871	Geology ⁴	THOMAS JOHN JELF, M.D., M.A.	1914	Crown.
1868	Engineering ⁵	THOS HUDSON BEARE, B.A., B.Sc., M.I.C.E.	1901	Crown.
1790	Agriculture and Rural Economy ⁶	ROBERT WALLACE ..	1885	Lds. of Sess., Cur., and Univ. Court.
1898	Public Health ⁷	CHAS. HUNTER STEWART, M.B., C.M., D.Sc.	1898	University Court.
1913	Bacteriology ⁸	JAMES RITCHIE, M.A., M.D.	1913	University Court.

FACULTY OF DIVINITY.

Dean—Professor PATERSON, D.D.

1853	Divinity	WILLIAM PATERSON PATERSON, D.D.	1903	Curators.
1846	Biblical Criticism and Biblical Antiquities	JOHN PATRICK, D.D. ..	1898	Crown.
1694	Ecclesiastical History ..	JAMES MACKINNON, M.A., Ph.D., D.D.	1908	Crown.
1642	Hebrew and Semitic Languages	ARCH. ROBT. STIRLING KENNEDY, B.D., D.D.	1895	Curators.

¹ Endowed in 1871 by the Merchant Company of Edinburgh, and other Governors of George Watson's and Daniel Stewart's Colleges.

² Endowed by the late Mr H. G. Watson, R.S.A., and Miss Frances Watson.

³ Endowed by the Trustees of the late Rev. Dr Andrew Bell, and supplemented by the Educational Endowments Commission.

⁴ Endowed by Sir Roderick Impey Murchison, Bart.

⁵ Endowed by Sir David Baxter.

⁶ The Professor is elected by nine Delegates, three chosen by the Judges of the Court of Session, three by the Curators, and three by the University Court.

⁷ Bruce and John Usher Chair.

⁸ Robert Irvine Chair.

FACULTY OF LAW.*Dean*—Professor JAMES MACKINTOSH, K.C., B.A., LL.D.

Date of Institution.	Chairs.	Professors.	Appointed.	Patrons.
1707	Public Law	Sir LUDOVIC J. GRANT, Bart., B.A., LL.D.	1890	Crown.
1710	Civil Law	JAS. MACKINTOSH, K.C., B.A., LL.D.	1893	Fac. of Adv., and Cur. ¹
1719	Constitutional Law and Constitutional History	J. H. MILLAR, LL.B.	B.A. 1909	Do. ¹
1722	Scots Law.. ..	JOHN RANKINE, LL.D.	K.C., 1888	Do. ¹
1807	Forensic Medicine ..	HARVEY LITTLEJOHN, M.A., M.B., B.Sc.	1906	Crown.
1825	Conveyancing ²	JOHN LITTLE MOUNSEY, W.S.	1900	Cur., Dep.-Kpr., and W.S. Soc. ³
1871	Commercial and Political Economy and Mercantile Law	JOSEPH SHIELD NICHOLSON, M.A., D.Sc.	1880	Cur., and Merch. Co.
1901	Ancient History and Palæography ⁴	PETER HUME BROWN, M.A., LL.D.	1901	University Court.

FACULTY OF MEDICINE.*Dean*—Professor HARVEY LITTLEJOHN, M.A., M.B., B.Sc.

1713	Chemistry.. ..	JAMES WALKER, F.R.S.	D.Sc., 1908	Curators.
1767	Natural History.. ..	JAMES COSSAR EWART, M.D., F.R.S.	1882	Curators.
1676	Botany	ISAAC BAYLEY BALFOUR, M.D., D.Sc., F.R.S.	1888	Crown.
1705	Anatomy	ARTHUR ROBINSON, F.R.S.	M.D., 1909	Curators.
1685	Physiology	Sir EDWARD ALBERT SCHÄFER, F.R.S.	1899	Curators.
1881	Pathology.. ..	JAMES LORRAIN SMITH, M.A., M.D., F.R.S.	1912	Curators.
1768	Materia Medica	Sir THOMAS RICHARD FRASER, M.D., LL.D., F.R.S.	1877	Curators.
1685	Medicine	JOHN WYLLIE, M.D.	1900	Curators.
1831	Surgery	ALEXIS THOMSON, M.D.	1909	Curators.
1726	Midwifery.. ..	Sir JOHN HALLIDAY CROOM, M.D.	1905	Curators.
1807	Forensic Medicine ..	HARVEY LITTLEJOHN, M.A., M.B., B.Sc.	1906	Crown.
1803	Clinical Surgery	FRANCIS M. CAIRD, M.B.	1908	Crown.
1741	Clinical Medicine ..	Sir THOMAS RICHARD FRASER, M.D., and JOHN WYLLIE, M.D.		
1898	Public Health ⁵	CHAS. HUNTER STEWART, M.B., C.M., D.Sc.	1898	University Court.
1913	Bacteriology ⁶	JAMES RITCHIE, M.D.	1913	University Court.
1913	Clinical Medicine ⁷ ..	WILLIAM RUSSELL, M.D.	1913	University Court.

¹ For each of these Chairs the Faculty of Advocates send to the Curators a list of two, of whom the Curators must choose one.

² Endowed by the Society of Writers to the Signet.

³ The Election is by—(1) Two Delegates from the Curators; (2) Two from the Society of Writers to the Signet; and (3) The Deputy-Keeper of the Signet.

⁴ Sir William Fraser Chair.

⁵ Bruce and John Usher Chair.

⁶ Robert Irvine Chair.

⁷ Moncrieff Arnott Chair.

FACULTY OF MUSIC.

Dean—PROFESSOR TOVEY ; The PRINCIPAL, *ex officio* ;

PROFESSOR WALKER, appointed by the Senatus.

Date of Institution.	Chair.	Professor.	Appointed.	Patrons.
1880	Reid Chair of Music	.. DONALD FRANCIS TOVEY, B.A.	1914	University Court.

UNIVERSITY LECTURERS.

Date of Institution of Lectureship.	Subjects.	Lecturers.	Appointed.	Patrons.
1892	Rhetoric and English Literature	A. BLYTH WEBSTER, M.A. GEORGE KITCHIN, M.A., B.Litt.	1905 1911	University Court. Do.
1892	Latin	JAMES MILL, M.A. ..	1896	Do.
1892	Greek	H. J. W. TILLYARD, M.A.	1908	Do.
1912	Arabic	EDWARD ROBERTSON, M.A., B.D., D.Litt.	1913	Do.
1892	Mathematics	CHARLES TWEEDIE, M.A., B.Sc.	1892	Do.
1903	Do.	ELLICE M. HORSBURGH, M.A., B.Sc., A.M.I.C.E.	1903	Do.
1905	Do.	DAVID GIBB, M.A., B.Sc.	1909	Do.
1892	Natural Philosophy ..	GEORGE A. CARSE, M.A., D.Sc.	1907	Do.
1892	Applied Mathematics ..	J. R. MILNE, D.Sc. .. CARGILL G. KNOTT, M.A., D.Sc.	1912 1892	Do. Do.
1892	Logic and Metaphysics	ROBERT P. HARDIE, M.A.	1892	Do.
1906	Psychology	W. G. SMITH, M.A., Ph.D.	1906	Do. and Combe Trust.
1892	Moral Philosophy ..	HENRY BARKER, M.A.	1898	University Court Do.
1894	French Lang., Lit., and Romance Philology	CHARLES SAROLEA, K.O.L., Ph.D., D.Litt. R. L. GRAEME RITCHIE, M.A., D.Litt. (Paris)	1894 1909	Do. Do.
1894	German Lang., Lit., and Teutonic Philology	OTTO SCHLAPP, Ph.D. .. HANS F. EGGEING, M.A.	1894 1909	Do. Do.
1900	History ¹	DAV. PLAYFAIR HEATLEY	1900	Do.
1901	Ancient History (Greek and Roman) ²	A. F. GILES, M.A. ..	1907	Do.
1909	Scottish History ..	HENRY W. MEIKLE, M.A., D.Litt.	1909	Do.
1908	Geography	GEORGE G. CHISHOLM, M.A., B.Sc.	1908	Do.
1901	Political Economy ..	J. B. GUILD, M.A. ..	1913	Do.
1906	Economic History ..	J. F. REES, M.A. ..	1913	Do.
1909	Banking (Charles Bruce Lectureship)	ALLAN M'NEIL, S.S.C.	1910	Do. ³
1907	Statistics and Mathe- matical Economics	GEORGE A. CARSE, M.A., D.Sc.	1907	Do.

¹ Mackay Lectures.

² Sir William Fraser Lectures.

³ Appointment made after consultation with the President for the time being of the Institute of Bankers in Scotland.

Date of Institution of Lectureship.	Subjects.	Lecturers.	Appointed.	Patrons.
1912	Colonial and Indian History	JAMES MUNRO, M.A.	1912	University Court.
1914	Education	JAS. DREMER, M.A. B.Sc.	1914	Do.
1904	Military Subjects	Capt. HENRY MELVILL JOHNSTONE, R.E. (retd.)	1904	Do.
1908	Botany	R. C. DAVIE, M.A., B.Sc.	1913	Do.
1894	Chemistry	LEONARD DOBBIN, Ph.D.	1894	Do.
	Do.	A. C. CUMMING, D.Sc.	1908	Do.
	Do.	W. W. TAYLOR, M.A., D.Sc.	1902	Do.
	Do.	JOHN E. MACKENZIE, Ph.D., D.Sc.	1908	Do.
1894	Petrology	ROBERT CAMPBELL, M.A., D.Sc.	1904	Do.
1910	Palæontology	T. M. FINLAY, M.A., B.Sc.	1914	Do.
1894	Plant Physiology ..	J. L. S. SMITH, M.A., B.Sc.	1914	Do.
1902	Histology	HAROLD PRINGLE, M.D.	1908	Do.
1902	Chemical Physiology ..	W. CRAMER, Ph.D., D.Sc.	1906	Do.
1902	Experimental Physiology	JOHN TAIT, D.Sc., M.D.	1911	Do.
1913	Physiology of the Nervous System	A. NINIAN BRUCE, M.D., D.Sc.	1913	Do.
1895	Engineering Drawing, & Structural Design	WALTER HUME KERR, M.A., B.Sc.	1895	Do.
1906	Engineering	J. B. TODD, B.Sc., A.M.I.Mech.E.	1906	Do.
1914	Forest Engineering ..	WILLIAM GORDON, B.Sc., A.M.I.Mech.E.	1914	Do.
1911	Agriculture	J. A. S. WATSON, B.Sc.	1911	Do.
1889	Forestry	E. P. STEBBING, F.L.S., F.G.S.	1910	Do.
	Do.	J. LYFORD PIKE, B.Sc.	1913	Do.
1908	Forest Botany	A. W. BORTHWICK, D.Sc.	1908	Do.
1890	Agricultural Entomo- logy ¹	R. STEWART MAC- DOUGALL, M.A., D.Sc.	1906	Do.
1908	Forest Entomology ..	Do.	1908	Do.
1910	Anthropology and Pre- historic Archaeology	Do.	1914	Do.
1911	Mycology and Bacteri- ology	MALCOLM WILSON, D.Sc.	1911	Do.
1911	Comparative Anatomy ..	O. C. BRADLEY, M.D., D.Sc.	1911	Do.
1907	Apologetics	Rev. R. H. FISHER, B.D., D.D.	1913	Do.
1887	Gifford Lecturer on Natural Theology	Prof. HENRI BERGSON		Senatus Academicus
1889	Gunning Lecturer ..	Rev. BRUCE McEWEN, M.A., B.D., D.Phil.	1912	Divinity Faculty.
1894	International Private Law	CHARLES R. A. HOWDEN, M.A.	1909	University Court.
1884	Evidence and Procedure	W. J. LEWIS, B.L., S.S.C.	1910	Do.
1904	Landlord and Tenant ..	CHARLES R. A. HOWDEN, M.A.	1906	Do.
1904	Administrative Law ..	PHILIP F. WOOD, M.A., LL.B.	1904	Do.
1908	Mercantile Law	HENRY AITKEN, K.C.	1908	Do.
1912	English Law	H. BURN MURDOCH, B.A., LL.B.	1912	Do.
1879	Mental Diseases	G. M. ROBERTSON, M.D.	1908	Do.
1883	Diseases of the Eye ..	W. G. SYM, M.D.	1912	Do.

¹ Steven Lectureship. Patrons: The Principal, the Professor of Agriculture, and three representative members appointed by the University Court.

Date of Institution of Lecture-ship.	Subjects.	Lecturers.	Appointed.	Patrons.
1885	Clinical Instruction on Diseases of Children	JOHN THOMSON, M.D., and staff of the Royal Hospital for Sick Children	1913	University Court.
1885	Comp. Embryology and Vertebrate Morphology	JOHN BEARD, D.Sc.	1894	Do.
1901	Invertebrate Zoology ..	J. H. ASHWORTH, D.Sc.	1901	Do.
1909	Medical Entomology and Protozoology	Do.	1909	Do.
1911	Genetics	A. D. DARBISHIRE, M.A.	1911	Do.
1894	Anatomy	E. B. JAMIESON, M.D. .. * * *	1906	Do. Do. Do.
1903	Applied Anatomy ..	HAROLD J. STILES, M.B., C.M.	1903	Do.
1894	Experimental Pharma- cology	WILLIAM C. SILLAR, M.D., B.Sc. * * *	1894	Do. Do.
1894	Applied Bacteriology ..			Do.
1910	Practical Pathology ..	A. M. DRENNAN, M.B. ..	1910	Do.
1913	Morbid Anatomy ..			Do.
1914	Surgical Pathology ..	JAMES M. GRAHAM, M.B., Ch.B.	1914	Do.
1897	Diseases of the Larynx, Ear, and Nose	A. LOGAN TURNER, M.D.	1906	Do.
1898	Diseases of Tropical Climates	Major D. G. MARSHALL, M.B., I.M.S.	1908	Do.
1899	Clinical Instruction on Diseases of the Skin	NORMAN WALKER, M.D. FREDERICK GARDINER, M.D.	1906 1913	Do. Do.
1904	Infective Fevers	ALEXANDER JAMES, M.D. C. B. KER, M.D. . . .	1908 1904	Do. Do.
1906	Systematic and Clinical Gynecology	A. H. F. BAIRD, M.A., M.D., LL.D.	1906	Do.
	Do.	N. T. BREWIS, M.B.	1913	Do.
1907	History of Medicine ..	JOHN D. COMRIE, M.A., B.Sc., M.D.	1908	Do.
1908	Clinical Surgery	Prof. ALEXIS THOMSON .. <i>Senior Lecturers</i> C. W. CATHCART, M.B., C.M. J. W. B. HOLSDON, M.D., C.M. DAVID WALLACE, M.B., C.M. ALEXANDER MILES, M.D.	1909 1913 1908 1910 1912	Do. Do. Do. Do. Do.
1913	Clinical Medicine	<i>Senior Lecturers</i> — Sir R. W. PHILIP, M.D. G. LOVELL GULLAND, M.D. J. J. GRAHAM BROWN, M.D. F. D. BOYD, M.D. J. J. GRAHAM BROWN, M.D.	1913 1913 1913 1913 1912	Do. Do. Do. Do. Do.
1912	Neurology			Do.
1912	Physical Methods in the Treatment of Disease	HARRY RAINY, M.A., M.D.	1912	Do.

UNIVERSITY ASSISTANTS.**IN THE FACULTY OF ARTS.**

Subjects.	Assistants.
Rhetoric and Eng. Literature	A. BLYTH WEBSTER, M.A.; GEORGE KITCHIN, M.A., B.Litt.
Humanity.. .. .	JAMES MILL, M.A.; JOHN M. THOMSON, M.A.; CATHERINE A. NICHOLSON, M.A.
Greek	H. J. W. TILLYARD, M.A.; RODERICK M'KENZIE, M.A.
French	NANNIE M'WILLIAM, M.A. (Tutor).
German	MURIEL SMITH, M.A. (Tutor).
Hebrew & Semitic Languages..	Rev. A. S. TRITTON, M.A.
Mathematics	CHARLES TWEEDIE, M.A., B.Sc.; DAVID GIBB, M.A., B.Sc.; GLENNY SMEAL, B.Sc.
Natural Philosophy	GEORGE A. CARSE, M.A., D.Sc.; J. R. MILNE, D.Sc.; HERBERT BELL, M.A., B.Sc.; JOHN MACKIE, M.A., B.Sc.; M. THOMAS, B.Sc.; THOMAS G. IRONSIDE, M.A., B.Sc. (under the Nichol Foundation); GEORGE SHEARER, M.A., B.Sc.; THOMAS LINDSAY (Mechanical).
Logic and Metaphysics ..	R. P. HARDIE, M.A.; H. F. HALLETT, M.A.
Moral Philosophy	HENRY BARKER, M.A.; W. R. FORRESTER, M.A.
Psychology	WILLIAM NICOLSON, M.A.
Geography	ALICE B. LENNIE, M.A., B.Sc.
History	JOHN EWING, M.A.; E. W. M. BALFOUR MELVILLE; also D. P. HEATLEY, and H. W. MEIKLE, M.A., D.Litt. (Tutors).
Do. (Constitutional Law, etc.)	D. P. HEATLEY.
Political Economy	J. B. GUILD, M.A.; WILLIAM H. MYLES, M.A.
Theory, History, and Practice of Education	JAMES DREVER, M.A., B.Sc.

IN THE FACULTY OF SCIENCE.

Geology	ROBERT CAMPBELL, M.A., D.Sc.; T. M. FINLAY, M.A., B.Sc.
Engineering	W. H. KERR, M.A., B.Sc.; J. B. TODD, B.Sc., A.M.I.Mech.E.; WILLIAM GORDON, B.Sc., A.M.I.Mech.E.; JAMES GRAY.
Agriculture	J. A. S. WATSON, B.Sc.
Forestry	J. LYFORD PIKE, B.Sc.; JAMES FRASER, B.Sc.

IN THE FACULTY OF DIVINITY.

Divinity	Rev. R. H. FISHER, B.D., D.D.
Hebrew & Semitic Languages..	Rev. ARTHUR S. TRITTON, M.A.

IN THE FACULTY OF LAW.

Civil Law	D. OSWALD DYKES, M.A., LL.B.
Scots Law.. .. .	CHARLES R. A. HOWDEN, M.A.
Conveyancing	JOHN ALEX. GRANT.
Forensic Medicine	* * *
Const. Law and Const. Hist.	D. P. HEATLEY.

IN THE FACULTY OF MEDICINE.

Chemistry.. .. .	LEONARD DOBBIN, Ph.D.; A. C. CUMMING, D.Sc.; WM. WHITE TAYLOR, M.A., D.Sc.; JOHN E. MACKENZIE, Ph.D., D.Sc.; J. P. LONGSTAFF, D.Sc.; SYDNEY A. KAY, D.Sc.; H. G. RULE, Ph.D.; W. G. BENNETT, B.Sc.; A. E. WALDEN, B.Sc.; R. GILMOUR, B.Sc.; WALTER MURRAY (Technical Assistant).
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Subjects.	Assistants.
Zoology	J. BEARD, D.Sc.; J. H. ASHWORTH, D.Sc.; A. D. DARBISHIRE, M.A.
Botany	ROBERT C. DAVIE, M.A., B.Sc.; MALCOLM WILSON, D.Sc.; JAS. L. S. SMITH, M.A., B.Sc.
Anatomy	EDWARD B. JAMIESON, M.D.; W. Q. WOOD, M.B., Ch.B.; H. A. COOKSON, M.B., Ch.B.; W. B. MEYER, M.B., Ch.B.; W. MACKENZIE, M.B., Ch.B.; C. BURNHAM, M.B., Ch.B.; L. BEESLEY, F.R.C.S.E.; F. E. JARDINE, M.B., Ch.B.; P. D. CAIRNS, M.B., Ch.B.; J. A. ANDREWS, M.B., Ch.B.
Physiology	W. CRAMER, Ph.D.; HAROLD PRINGLE, M.D.; JOHN TAIT, M.D., D.Sc.; A. NINIAN BRUCE, D.Sc., M.D.; R. J. M. HORNE, M.A., B.Sc.
Pathology	ALEX. M. DRENNAN, M.B.; D. MURRAY LYON, M.B.; W. R. LOGAN, M.B., Ch.B.; RICHARD MUIR (Demonstrator of Pathological and Bacteriological Methods).
Materia Medica	WM. C. SILLAR, M.D., B.Sc.; GOMER WILLIAMS, M.B., Ch.B.
Medicine	J. G. CATTANACH, M.B., C.M.
Clinical Medicine	CHARLES M ^c NEIL, M.D.; LEWIS H. F. THATCHER, M.B.; W. D. D. SMALL, M.D.; H. L. WATSON WEMYSS, M.D.; and the Clinical Tutors to the Senior Lecturers.
Surgery	JAMES M. GRAHAM, M.B., Ch.B.; A. PIRIE WATSON, M.A., M.B., Ch.M.; R. C. ALEXANDER, M.A., M.B., Ch.B.; FRANK PETTIGREW (Technical Assistant).
Clinical Surgery	F. E. JARDINE, M.B., Ch.B.; A. PIRIE WATSON, M.B.; and the Clinical Tutors to the Senior Lecturers.
Midwifery	ROBERT W. JOHNSTONE, M.D.
Gynecology	T. D. INCH, M.B.
Midwifery and Gynecology	JAS. SHEARSEY (Technical Asst.).
Forensic Medicine	
Public Health	J. BUCHANAN YOUNG, M.B., D.Sc.
Diseases of the Ear, Nose, and Throat	W. T. GARDINER, M.B., Ch.B.
Diseases of the Eye	W. H. BOREHAM, M.B., Ch.B.

IN THE FACULTY OF MUSIC.

Music	MATTHEW SHIRLAW, Mus.D.
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EXAMINERS.

For Preliminary Examination.

The Professors of or Lecturers on the several Subjects, and the following additional Examiners:—

Subjects.	Examiners.	Appointed.
English	Professor F. W. MOORMAN	1910
Latin	} GILBERT WATSON, M.A.	1911
Greek		
Mathematics	J. F. M ^c KEAN, M.A.	1912
French	R. L. G. RITCHIE, M.A., D.Litt.	1913
German	BESSIE H. A. ROBSON, M.A.	1912
Dynamics	G. A. CARSE, M.A., D.Sc.	1913

For Degrees.

The Examiners for Degrees are the Professors of or Lecturers on the different subjects, along with additional Examiners appointed by the University Court. As a general rule, no Professor, Lecturer, or University Assistant or Demonstrator can be appointed an additional Examiner.

FACULTY OF ARTS.

The Professors of or Lecturers on the several Subjects, and the following additional Examiners :—

Language and Literature.

Subjects.	Examiners.	Appointed.
Latin	A. DOUGLAS THOMSON, M.A.,	D.Litt.; } 1911
Greek	GILBERT WATSON, M.A.	} 1911
English	Professor F. W. MOORMAN	1910
French	Professor H. L. CHATELAIN	1912
German	BESSIE H. A. ROBSON, M.A.	1912
Sanskrit	A. B. KEITH, M.A., D.C.L., D.Litt.	1912
Hebrew & Semitic Languages	A. S. FULTON, M.A.	1913
Classical Archaeology ..	Professor R. C. BOSANQUET	1912
Celtic	* * *	

Mental Philosophy.

Logic and Metaphysics..	JOHN HANDYSIDE, M.A.	1912
Moral Philosophy	S. H. MELLONE, D.Sc.	1912
Psychology	FRANK SPENCE, M.A., B.Sc.	1912
Political Economy	W. L. CARRIE, M.A.	1913
Education.. .. .		

Science.

Mathematics (Pure & Applied)	J. F. M'KEAN, M.A.	1912
Experimental Physics ..	A. CRICHTON MITCHELL, D.Sc.	1913
Astronomy	ARTHUR HINKS, M.A., F.R.S.	1913
Chemistry.. .. .	ALEX. LAUDER, D.Sc.	1913
Zoology	Professor GREGG WILSON	1911
Botany	Professor PERCY GROOM.. .. .	1911
Geology	JOHN HORNE, LL.D., F.R.S.	1911
Geography	Professor H. N. DICKSON	1913

History and Law.

History	ROBERT B. MOWAT, M.A.	1912
Scottish History.. ..	W. B. GRAY, M.A.	1913
Ancient History.. ..	HENRY J. CUNNINGHAM, M.A.	1911
Archæology & Anc. History of	DAVID J. VALLANCE	1911
Military History.. ..	Captain J. W. SANDILANDS, D.S.A.	1914
Constitutional Law and	ARTHUR J. ALISON, B.A., LL.B.	1912
Constitutional History		
Ecclesiastical History ..	Rev. BRUCE M'EWEN, M.A., B.D., D.Phil.	1914
Roman Law	CHARLES E. LIPPE, M.A., LL.B.	1912
Public Law		
Mercantile Law	WM. J. KIPPEN, LL.B.	1912

FACULTY OF SCIENCE.**Pure Science.**

The Professors of or Lecturers on the several Subjects, and the additional Examiners in Mathematics, Natural Philosophy, Zoology, Botany, Chemistry, Astronomy, Anatomy, Physiology, and Geology.

Engineering.

The Professors of or Lecturers on the several Subjects, the additional Examiners in Mathematics, Natural Philosophy, and Chemistry, and in

Subjects.	Examiners.	Appointed.
Engineering	Professor W. H. WATKINSON	1911
	Prof. STANFIELD	1902
Electrical Engineering.. ..	Prof. F. G. BAILY, M.A., M.I.E.E.	1904

Public Health.

The Professors of or Lecturers on the Subjects, the additional Examiner in Geology, and the following additional Examiners :—

Physics	A. CRICHTON MITCHELL, D.Sc.	1913
Laboratory Work	CARSTAIRS C. DOUGLAS, M.D., D.Sc.	1912
Medicine in its bearings on	BYROM BRAMWELL, M.D., LL.D.	1914
Public Health		
Sanitation, Sanitary Law, and	WILLIAM ROBERTSON, M.D.	1912
Vital Statistics		

Agriculture and Forestry.

The Professors of or Lecturers on the Subjects, and the following additional Examiners :—

The additional Examiners in Mathematics, Chemistry, Botany, Natural History, and Geology, and in

Agriculture	Professor J. N. JACK	1913
Veterinary Hygiene	JOHN DUNSTAN, M.R.C.V.S.	1913
Agricultural and Forest	R. A. BERRY	1910
Chemistry		
Political Economy	FRANK SPENCE, M.A., B.Sc.	1912
Forestry	Sir S. EARDLEY WILMOT.. ..	1911
Agricultural Entomology and	Professor NEWSTEAD	1910
Forest Zoology		
Forest Botany	Professor GROOM	1910

Veterinary Science.

The Professors of or Lecturers on the Subjects, and the additional Examiners in the various Subjects; also, in

Anatomy of Domesticated	Professor SIMESON SHAVE	1914
Animals		

FACULTY OF DIVINITY.

The Professors in the Faculty of Divinity, and the following additional Examiners :—

Rev. G. WAUCHOPE STEWART, B.D.		1912
Rev. BRUCE McEWEN, B.D., D.Phil.		1914

FACULTY OF LAW.

The Professors of or Lecturers on the several Subjects, and the following additional Examiners:—

Subjects	Examiners.	Appointed.
Civil Law, Public International Law, and General Jurisprudence	CHARLES E. LIPPE, M.A., LL.B.	 1912
Scots Law, Conveyancing, International Private Law, Evidence & Procedure, & Mercantile Law	WILLIAM J. KIPPEN, LL.B.	 1912
Constitutional Law and Constitutional History, and Administrative Law	ARTHUR J. ALISON, B.A., LL.B.	 1912
Forensic Medicine	H. HILTON BROWN, M.B.	 1912
Political Economy	FRANK SPENCE, M.A., B.Sc.	 1912

FACULTY OF MEDICINE.

The Professors of or Lecturers on the several Subjects, and the following additional Examiners:—

Botany	Professor PERCY GROOM.. ..	1910
Zoology	Professor GREGG WILSON	1910
Physics	ALFRED DANIELL, D.Sc., LL.B.	1913
Chemistry	ALEXANDER LAUDER, D.Sc.	1913
Anatomy	Prof. DAVID WATERSTON.. ..	1912
Physiology	Prof. T. H. MILROY	1912
Materia Medica	Professor C. R. MARSHALL	1912
Pathology	A. C. O'SULLIVAN, M.D.	1912
Forensic Medicine	J. WRIGHT MASON, B.Sc., M.B.	1912
Public Health	WILLIAM ROBERTSON, M.D.	1912
Surgery	J. W. DOWDEN, M.B., C.M.	1911
Clinical Surgery	J. HOGARTH PRINGLE, M.B., C.M.	1912
Practical Surgery	J. W. DOWDEN, M.B., C.M.	1911
Medicine	R. A. FLEMING, M.D.	1914
Midwifery	J. LAMOND LACKIE, M.D.	1912
Gynecology	WILLIAM FORDYCE, M.D.	1913

FACULTY OF MUSIC.

The Professor of Music and Sir ALEXANDER C. MACKENZIE, Mus.D.

UNIVERSITY LIBRARY.

Librarian.—FRANK C. NICHOLSON, M.A.

Assistant Librarians.—DAVID CUTHEBERTSON; EDMOND MURSET; OTTO BOLLENBACHER; THOMAS H. RUTTER; PHILIP G. SHEPHERD; MARJORY WILSON, M.A.; ETHEL H. COOK; CHARLOTTE R. LOWNIE, M.A.; GEORGE TEMPLE (Medical Reading Room).

SENATUS OFFICES.

Clerk of Senatus	JAMES DOWIE.
Assistant Clerks	THOS. F. HARLEY, GEORGE BUCKLE, JOHN MILLAR, WILLIAM A. COUTTS.
Typists	JESSIE H. MOON, SARAH J. TAYLOR.
Organist	THOMAS H. COLLINSON, Mus.B.
Clerk of Works	WALTER CLARK.
Janitor and Mace-Bearer.. .. .	WILLIAM S. MITCHELL.
Warder at Old Buildings	WILLIAM J. MURRAY.
Warder at New Buildings	HERBERT CRAIGIE.
Warder at George Square Buildings	JAMES IRVINE.
Caretaker, Music Class Room	C. W. WELLBY.
Caretaker, M'Ewan Hall	ROBERT STEWART.
Caretaker, John Usher Institute	JAMES CUMMING.

Staff of Fourteen Servitors.

GENERAL COUNCIL.

President	The Right Hon. ARTHUR JAMES BALFOUR, M.P., D.C.L., etc., Chancellor of the University.
Vice-Presidents	The Rector, The Principal, The Chancellor's Assessor, The Rector's Assessor.
Representative in Parliament	Sir ROBERT B. FINLAY, M.D., LL.D.
Convener of Business Committee	J. B. CLARK, M.A.
Convener of Finance Committee	THOMAS J. MILLAR, M.A., LL.B., C.A.
Registrar and Secretary	THOS. F. HARLEY.

OFFICE ARRANGEMENTS.

The General Office ("Matriculation Office") is in the Old Buildings, South Bridge Street. There all students matriculate (see p. 33), and entries are made and fees paid for the Preliminary and Degree Examinations.

The Office of the Faculty of Medicine is in the New Buildings, Teviot Place, where enquiries regarding Graduation in the Faculty are dealt with, and Class Certificates are shown by candidates for Medical Degree Examinations. Here, also, **students commencing their studies in Medicine must call to see the Dean, during the first fortnight of the Session.**

Office hours :—During Session, 10-4; Saturdays, 10-1. During Vacation, 10-1, and closed on Saturdays.

The Class Fees are collected by the University Factor. For the purpose of receiving these, attendance is given for a short period at the beginning of the Winter and Summer Sessions, in the University Old Buildings. Fees not paid at these periods are taken at the Factor's Office, 61 Castle Street. All communications regarding Class Fees and Inclusive Fees should be addressed to, and all cheques drawn in favour of, the Collector of Class Fees, Edinburgh University.

CONSTITUTION OF THE UNIVERSITY.

THE University of Edinburgh was originally the "College of Edinburgh" or "The Town's College," founded in 1583 by the Town Council of Edinburgh, under general powers granted by the Charter of King James VI., dated 14th April 1582. No Charter of foundation is extant ; but from the first the College possessed the privilege of conferring degrees. This privilege was ratified by the "Act of Confirmation," passed in 1621, which secured to the "College of James VI." (as it had come to be called) all the rights, immunities, and privileges enjoyed by the Universities of Scotland. This ratification was renewed in the Treaty of Union between England and Scotland, and in the Act of Security. Gradually, in Acts of General Assembly, of Town Council, and of Parliament, the "College of James VI." came to be styled "The University of Edinburgh" ; but it remained under the control and patronage of the Town Council down to 1858, when, by the Universities Act all the Universities of Scotland received new and autonomous constitutions.

By the Universities (Scotland) Act, 1889, the University Court was constituted a body corporate, to which the whole property belonging to the University at the passing of the Act was transferred, with full power of administration.

The Senatus, as heretofore, regulates the teaching and discipline of the University, subject to the provisions of the Universities Acts of 1858 and 1899.

CHANCELLOR.

The Chancellor is elected by the General Council for life. Changes in the ordinances and in University arrangements, proposed or approved by the University Court, must receive his sanction. Degrees are conferred by him, or by the Vice-Chancellor. The Chancellor is President of the General Council, and nominates an Assessor in the University Court. Appointments :—

Right Hon. Lord Brougham, 1859.

Right Hon. John Inglis, D.C.L., LL.D., 1868.

Right Hon. ARTHUR J. BALFOUR, M.P., D.C.L., LL.D., etc., 1891.

VICE-CHANCELLOR.

The Vice-Chancellor, nominated by the Chancellor, may, in absence of the Chancellor, confer Degrees, but cannot discharge any other of the Chancellor's duties. In the Vice-Chancellor's absence, Degrees are conferred by the Principal, or by the senior member of Senatus.

The Vice-Chancellor acts as Returning Officer at Parliamentary Elections. If there be no Vice-Chancellor at the time, the University Court appoints one to act as Returning Officer. Appointments :—

Sir D. Brewster, appointed 1860.

Sir Alexander Grant, Bart.,
1868.

Sir William Muir, 1885.

Sir WILLIAM TURNER, K.C.B.,
1903.

RECTOR.

The Rector is elected by the Matriculated Students in the University on such day in October or November as may be fixed by the University Court, after consultation with the Senatus, but not later than the second Saturday in November. The term of office is three years. The next election will take place in 1914. The Rector is President of, and nominates an Assessor in, the University Court. He may, before he appoints his Assessor, confer with the Students' Representative Council. No

Principal or Professor of any Scottish University is eligible.
 Appointments :—

Rt. Hon. W. E. Gladstone, 1859.
 Thomas Carlyle, 1865.
 Rt. Hon. Lord Moncrieff, 1868.
 Sir W. Stirling Maxwell, Bart.,
 1871.
 Rt. Hon. Earl of Derby, 1874.
 Most Hon. the Marquess of Har-
 tington, 1877.
 Rt. Hon. Earl of Rosebery and
 Midlothian, 1880.
 Rt. Hon. Earl of Iddesleigh, 1883.
 Most Hon. the Marquess of Lothian,
 1887.

Rt. Hon. George J. Goschen, 1890.
 Rt. Hon. J. P. B. Robertson,
 1893.
 Most Hon. Lord Balfour of Burleigh,
 1896.
 Most Hon. the Marquess of Duf-
 ferin and Ava, 1899.
 Rt. Hon. Sir Robert Bannatyne
 Finlay, 1902.
 Rt. Hon. Richard Burdon Haldane,
 1905.
 Rt. Hon. Geo. Wyndham, 1908.
 Rt. Hon. the Earl of Minto, 1911.

REPRESENTATIVE IN PARLIAMENT.

Under Clauses 27 to 41 of the “Representation of the People (Scotland) Act,” 31 & 32 Vict., cap. 48, the General Councils of the Universities of Edinburgh and St Andrews elect a Member of Parliament for these Universities.

When a poll is demanded, the votes are given by voting papers issued by the Registrar.

The appointments have been—

Sir Lyon, afterwards Lord, Playfair, K.C.B., LL.D., 1868.
 Rt. Hon. J. H. A. Macdonald, C.B., Q.C., LL.D., 1885, 1886.
 M. T. Stormonth Darling, Q.C., LL.D., 1888.
 Rt. Hon. Sir Charles J. Pearson, Q.C., LL.D., 1890, 1892.
 Sir William Overend Priestley, K.B., M.D., LL.D., 1896.
 Sir John Batty Tuke, M.D., LL.D., 1900, 1906.
 Sir ROBERT BANNATYNE FINLAY, 1910.

The Parliamentary constituency for 1914 is as follows :—

Edinburgh	..	..	..	..	11,040
St Andrews	..	..	..	..	1,429
Total in 1914					12,469

In the Parliamentary Election, 1910, 5205 voted for Sir Robert B. Finlay and 2693 for Sir Alexander R. Simpson. Majority for Finlay, 2512. See Appendix.

UNIVERSITY COURT.

Under the Universities Act, 1858, the Court has power: -

1. To review all decisions of the Senatus, and to be a Court of Appeal from the Senatus, except as otherwise provided in the Universities Act.

2. To effect improvements in the internal arrangements of the University, after due communication with the Senatus, and with the sanction of the Chancellor: provided all such proposed improvements be submitted to the General Council for consideration.

3. To require due attention on the part of the Professors to the Regulations as to the mode of teaching, and other duties imposed on the Professors.

4. To fix and regulate, from time to time, the Fees in the several Classes.

5. Upon sufficient cause shown, and after due investigation, to censure any member of the Senatus, or to suspend him from office, and from the emoluments thereof, in whole or in part, for any period not exceeding one year, or to require him to retire on a retiring allowance, or to deprive him of office; and, during the suspension of any Professor, to make provision for the teaching of his class: provided no such sentence of censure, suspension, deprivation, etc., shall have effect until approved by His Majesty in Council.

By Sec. xiv. any of the Rules and Ordinances enacted by the Universities Commissioners under the Act, may be altered or revoked by the University Court of the University to which they are applicable, but only with the written consent of the Chancellor, and with the approval of His Majesty in Council.

By the Universities (Scotland) Act, 1889, the University Court is a body corporate, with perpetual succession and a common seal; and all the property belonging to the University at the passing of the Act is now vested in that body.

By the same Act, the University Court, besides the powers conferred upon it by the Act of 1858, has power -

- (1.) To administer and manage the whole revenue and property of the University, including funds mortified for bursaries and other purposes, and have all the powers necessary for the purpose.
- (2.) To review any decision of the Senatus appealed against by a member of Senatus, or other member of the University having an interest, and to take into consideration all representations and reports made to it by the Senatus and by the General Council.
- (3.) To review, on representation made by any of its members, or by any member of Senatus, any decision which the Senatus may come to under section seven, sub-section one, but the University Court shall not review any decision of the Senatus in a matter of discipline, except upon appeal taken either by a member of Senatus or by a member of the University directly affected.

- (4.) To appoint professors whose chairs are in the patronage of the University; to appoint examiners and lecturers; and to grant recognition to the teaching of any college, or individual teacher, for the purposes of graduation.
- (5.) To define, on application by any member of Senatus, the nature and limits of a professor's duties under his commission.
- (6.) To take proceedings against a principal or professor, University lecturer, assistant, recognised teacher or examiner, or other person employed in teaching or examining, without the necessity of any one not a member of the Court appearing as prosecutor, and, in such proceedings, to call any member of the University to give evidence, and to require the production of documents, and to institute any inquiries it may deem necessary.
- (7.) To appoint from among members of the University or others, not being members of the Senatus, one-third of the members of any committee charged, by ordinance of the Commissioners, with the superintendence of any libraries or museums belonging to the University; and on representation made by any of its members, or by any member of Senatus, to review any decision which the Senatus, in the exercise of its powers, may come to in respect of the recommendations of such committee.
- (8.) To appoint committees of its own number, of not less than five members, with powers to report on any business entrusted to them by the University Court, or to carry out special instructions ordered by the Court.
- (9.) To elect the representative of the University on the General Medical Council, under the Medical Act, 1886.
- (10.) After the expiration of the powers of the Commission, to found new professorships, with the approval of the Universities Committee.

The University Court, by Section 21, has power to make new ordinances, with the approval of His Majesty in Council :

- (1.) With respect to the appropriation of the sum allotted to the University by the Commissioners out of the annual grant.
- (2.) Altering or revoking ordinances framed under the Universities Act, 1858, or this Act; and making new ordinances: provided that such ordinances, before being submitted to His Majesty for approval, have been communicated by the University Court to the Senatus, to the General Council, and to the University Courts of the other Universities.

The Court shall meet for the despatch of ordinary business on the Monday occurring in the seven days beginning on the 12th and ending with the 18th of each month, excepting the months of August and September, in which months the Court shall not meet, and also excepting the months of October and April, and in which months the Court shall meet on the Monday occurring in the seven days beginning on the 18th and ending with the 24th.

Other meetings may be called as the Court may direct. Any meeting may be postponed. Special Meetings may be called by order of the Rector or the Principal, or by the Secretary, on a requisition specifying the object, signed by at least three members of the Court.

It shall also meet, if necessary, to hear Registration Appeals, on the first Monday following the 15th January.

The University Court holds the patronage of the Chair of Music ; of the Chair of History ; of the Chair of Public Health ; of the Chair of Ancient History and Paleography ; of the Chair of Fine Art, in conjunction with the President of the Royal Scottish Academy ; and a share in the patronage of the Chair of Agriculture. It also elects three of the seven Curators of Patronage, and appoints the Lecturers and the Additional Examiners for Degrees.

The Court consists of—1. The Rector ; 2. The Principal ; 3. The Lord Provost of Edinburgh for the time being ; 4. An Assessor nominated by the Chancellor ; 5. An Assessor nominated by the Rector ; 6. An Assessor nominated by the Lord Provost, Magistrates, and Town Council of Edinburgh ; 7. Four Assessors elected by the General Council ; 8. Four Assessors elected by the Senatus Academicus ; 9. Representatives of affiliated Colleges, under section 15 (4) of the Act of 1889 (if any).

Seven members constitute a quorum. The Rector and his Assessor continue in office for three years ; but when the Chancellor or the Rector ceases to hold office, his Assessor continues to be a member of the Court until an Assessor is nominated by the new Chancellor or Rector. The other Assessors hold office for four years ; and all Assessors are eligible for re-election. No Principal or Professor of any Scottish University is eligible as Assessor to any other person or body than the Senatus. The Rector, and in his absence the Principal, presides at meetings of the Court ; and, in the absence of both, a chairman is elected by the meeting. The person presiding at any meeting of the Court has a deliberative vote, and also a casting vote, in case of equality.

An abstract of the proceedings of the Court in 1913-1914 is given in a subsequent part of the Calendar.

The names of the present Assessors are given on page 1. The names of the Assessors before 1888 will be found in the Historical Appendix to List of University Graduates, published in 1887 (page

105). The Assessors since 1888 will be found in the various Calendars.

UNIVERSITIES COMMITTEE OF PRIVY COUNCIL.

The Scottish Universities Committee of the Privy Council consists of the Lord President of the Privy Council, the Secretary for Scotland ; the Lord Justice-General, Lord Justice-Clerk, Lord Advocate, and the Chancellor and the Lord Rector of each of the Universities, if members of the Privy Council ; one member at least of the Judicial Committee of the Privy Council ; and such other member or members of the Privy Council as His Majesty may appoint.

The powers and duties of this Committee may, subject to rules or regulations passed by His Majesty in Council, be exercised and discharged by any three or more of the members, one of whom shall be a member of the Judicial Committee of the Privy Council or a Senator of the College of Justice in Scotland.

CURATORS OF PATRONAGE.

By the Universities Act of 1858, the patronage of seventeen Chairs, previously in the gift of the Town Council, was transferred to seven Curators—three nominated by the University Court, and four by the Town Council. The Curators also have the patronage of the Chairs of Celtic and Education and a share in the patronage of the Chairs of Humanity, Agriculture, Civil Law, Constitutional Law and Constitutional History, Scots Law, and Conveyancing, formerly in the gift of the Town Council, and of the Chair of Political Economy. The Curators hold office for three years. The names of the present Curators are given on page 2.

REPRESENTATIVE IN GENERAL MEDICAL COUNCIL.

Under the Medical Act of 1886, the University is entitled to elect a Member of the General Medical Council, who holds office for five years. Sir William Turner was elected by the Senatus in December 1886. Under the Universities Act of 1889, the University Representative is elected by the University Court, by

whom Sir William Turner, K.C.B., M.B., D.C.L., LL.D., was elected in 1891, and re-elected in 1896 and 1901. Sir Thomas R. Fraser, M.D., LL.D., was elected in 1905.

PRINCIPAL.

The Principal, formerly elected by the Town Council, now by the Curators, holds office for life. He is the President of the Senatus Academicus; in absence of the Rector, he presides at the meetings of the University Court; and in absence of the Chancellor and Rector he presides at the Statutory Meetings of the General Council, and also at the Special Meetings, except for the election of Assessors.

PRINCIPALS ELECTED SINCE 1586.

1586 Robert Rollock, <i>predecessor</i> <i>Regent.</i>	1716 William Wishart.
1599 Henry Charteris.	1730 William Hamilton.
1620 Patrick Sands.	1732 James Smith.
1622 Robert Boyd.	1736 William Wishart, <i>se-unius</i> .
1623 John Adamson.	1754 John Gowdie.
1653 Robert Leighton.	1762 William Robertson.
1662 William Colvill.	1793 George Husband Baird.
1675 Andrew Cant.	1840 John Lee.
1685 Alexander Monro.	1859 Sir David Brewster.
1690 Gilbert Rule.	1868 Sir Alexander Grant, Bart.
1703 William Carstares.	1885 Sir Wm. Muir, K.C.S.I.
	1903 Sir WM. TURNER, K.C.B.

SENATUS ACADEMICUS.

The Principal and the Professors constitute the Senatus. This body superintends and regulates the teaching and discipline of the University. The Senatus elects four Assessors in the University Court who hold office for four years. Two retire biennially, but may be re-elected; and in case of a casual vacancy, the person elected to fill it goes out of office when the person whom he succeeded would in the ordinary rotation have retired. The Senatus appoints two-thirds of the members of the Library and the Museums Committees, receives their reports, and, subject to the review of the University Court, confirms, modifies, or rejects such reports. It also elects a representative in the General Assembly of the Church of Scotland; two Managers of the Royal Infirmary; two Governors

of George Heriot's Trust ; two Governors of Morrison's Academy, Crieff ; two Governors of the Spence Bursary Trust ; one Governor of Dollar Institution ; and one Governor of Stiell's Hospital, Tranent. Degrees in Arts, Science, Divinity, Law, Medicine, and Music are conferred, on the recommendation of the Senatus, by either the Chancellor, the Vice-Chancellor, the Principal, or the senior Professor present. The Principal is President of the Senatus, with a deliberative and also a casting vote ; and, in his absence, the Senior Professor present acts as Chairman, also with a double vote. The Ordinary Meetings of Senatus shall be held on Thursdays, 8th October, 5th November, 3rd December, 14th January, 4th February, 4th and 25th March, 6th May, 3rd June, and 1st and 14th July, at 4 P.M.

Extraordinary Meetings shall be held, when necessary, in March, on the day of the Graduation Ceremonial, at 9.30 A.M. ; and in October, on the day of the Graduation Ceremonial.

Special Meetings may be arranged for at Ordinary or Extraordinary Meetings, or they may be called, for urgent or important business, by order of the Principal, or on a requisition specifying the object, signed by three Professors.

The Senatus reserve the power of changing the date and hour of a meeting, on special cause shown.

The Graduation Ceremonials shall be held in October, December, March, and July.

The Secretary of Senatus, among other duties, summons the Meetings, prepares the Minutes, and intimates business assigned to the Principal, the Faculties, the Boards of Studies, etc. He also administers the *Sponsio Academica* to Graduates.

FACULTIES.

The University contains six Faculties, as constituted by Ordinance in 1893—viz., Arts, Science, Divinity, Law, Medicine, and Music. Each Faculty is presided over by a Dean, who is elected by the Professors of his Faculty, and who, among other duties, presents to the Chancellor or Vice-Chancellor the Graduands of his Faculty. The names of the present Deans are given on pp. 2, 3, 4, and 5. The Chairs in the various Faculties are here given in chronological order. The Faculties as previously constituted are given in the CALENDAR for 1894-95, and in previous CALENDARS.

FACULTY OF ARTS.

The Faculty of Arts embraces the Chairs of Humanity (Latin), Greek, Mathematics, Logic and Metaphysics, Moral Philosophy, Natural Philosophy, Hebrew and Semitic Languages, History, Constitutional Law and Constitutional History, Ancient History and Palæography, Rhetoric and English Literature, Sanskrit and Comparative Philology, Commercial and Political Economy, Education, Fine Art, and Celtic.

REGENTS AND PROFESSORS IN THE FACULTY OF ARTS SINCE 1583.

Regents of Philosophy, 1583-1708.

[The Regents of Philosophy taught in rotation the four classes in the Curriculum of Arts, the "Bajans," the "Semi-Bajans," the "Bachelors," and the "Ma. triad," as the Students of the first, second, third, and fourth year were respectively styled. Each Regent therefore taught every subject in the Curriculum—the Regent of Humanity being subordinate to the Regent of Philosophy, and being employed as a tutor in Classics for Unmatriculated Students. In 1708 the system was changed, and separate Professors for Latin, Greek, Logic and Metaphysics, Moral Philosophy, and Natural Philosophy, were substituted for the Regents. A Professorship of Mathematics had previously existed.]

1583 Robt. Rollock, *first Regent*.
 1583 Duncan Lairn.
 1585 Charles Lumisdail.
 1586 Adam Colt.
 1586 Alexander Scrimgeour.
 1587 Philip Heslop.
 1588 Charles Ferme or Fairholm.
 1589 Henry Charteris.
 1589 Patrick Sands.
 1594 George Robertson.
 1597 William Craig.
 1597 John Adamson.
 1598 James Knox.
 1598 Robert Scott.
 1601 Andrew Young.
 1603 James Reid.
 1604 David Munro.
 1606 Blase Colt.
 1607 James Fairley.
 1608 William King.
 1611 Andrew Stevenson.
 1625 Samuel Rutherford.

1625 Robert Ranken.
 1626 Thomas Crawford.
 1626 John Brown.
 1631 Alexander Hepburn.
 1636 James Wyseman.
 1638 James Wright.
 1638 Robert Young.
 1639 Duncan Forrester.
 1644 William Tweedie.
 1644 James Pillans.
 1647 Andrew Suttie.
 1653 John Wishart.
 1665 George Sinclair.
 1666 John Wood.
 1667 William Paterson.
 1679 Gilbert M'Murdoch.
 1679 Andrew Massie.
 1680 Alexander Cockburn.
 1682 Robert Lidderdail.
 1684 Herbert Kennedy.
 1686 Thomas Burnet.
 1689 Alexander Cunningham.
 1690 William Law.
 1695 John Row.
 1695 William Scott.
 1701 Charles Areskine.
 1703 Robert Stewart.
 1707 Colin Drummond.

Regents of Humanity, 1597-1708.

1597 John Ray.
 1606 Blase Colt.
 1611 Oliver Colt.
 1611 Robert Burnet.
 ——— Andrew Stevenson.
 1623 Samuel Rutherford.
 1626 Thomas Craufurd.

- 1630 John Armour.
- 1633 Alexander Gibson.
- 1636 James Wyseman.
- 1638 Robert Young.
- 1644 James Pillans.
- 1653 John Wishart.
- 1656 William Forbes.
- 1656 James M'Gowan.
- 1658 Hugh Smith.
- 1663 William Cumming.
- 1665 Andrew Ross.
- 1665 Thomas Bell.
- 1676 Gilbert M'Murdoch.
- 1679 Alexander Cunningham.
- 1689 John Drummond.

Professors of Mathematics.

- 1620 Andrew Young.
- 1640 Thomas Craufurd.
- 1674 James Gregory.
- 1683 David Gregory.
- 1692 James Gregory.
- 1725 Colin M'Laurin.
- 1747 Matthew Stewart.
- 1775 Dugald Stewart.
- 1785 Adam Ferguson.
- 1785 John Playfair.
- 1805 John Leslie.
- 1819 William Wallace.
- 1838 Philip Kelland.
- 1879 George Chrystal.
- 1912 EDMUND TAYLOR WHIT-
TAKER.

Professors of Humanity.

- 1708 Laurence Dundas.
- 1728 Adam Watt.
- 1734 John Kerr.
- 1741 George Stuart.
- 1775 John Hill.
- 1806 Alexander Christison.
- 1820 James Pillans.
- 1863 William Young Sellar.
- 1891 Harry Chester Goodhart.
- 1895 WILLIAM ROSS HARDIE.

Professors of Greek.

- 1708 William Scott, *one of the*
Regents.
- 1729 William Scott, *secretary.*
- 1730 Colin Drummond.
- 1738 Robert Law.

- 1741 Robert Hunter.
- 1772 Andrew Dalziel.
- 1805 George Dunbar.
- 1852 John Stuart Blackie.
- 1882 Samuel Henry Butcher.
- 1903 ALEXANDER WM. MAIR.

Professors of Logic and Metaphysics.

- 1708 Colin Drummond, *one of the*
Regents.
- 1730 John Stevenson.
- 1774 John Bruce.
- 1786 James Finlayson.
- 1808 David Ritchie.
- 1836 Sir Wm. Hamilton, Bart.
- 1856 Alex. Campbell Fraser.
- 1891 ANDREW SETH PRINGLE
PATTISON.

Professors of Moral Philosophy.

- 1708 William Law, *one of the*
Regents.
- 1729 William Scott.
- 1734 John Pringle.
- 1745 William Cleghorn.
- 1754 James Balfour.
- 1764 Adam Ferguson.
- 1785 Dugald Stewart.
- 1810 Thomas Brown.
- 1820 John Wilson.
- 1853 P. C. M'Dougall.
- 1868 Henry Calderwood.
- 1898 JAMES SETH.

Professors of Natural Philosophy.

- 1708 Sir Robert Stewart, *one of the*
Regents.
- 1742 John Stewart.
- 1759 Adam Ferguson.
- 1764 James Russell.
- 1774 John Robison.
- 1805 John Playfair.
- 1819 Sir John Leslie.
- 1833 James David Forbes.
- 1860 Peter Guthrie Tait.
- 1901 James Gordon MacGregor.
- 1913 CHARLES GLOVER BARKLA.

*Professors of Hebrew and Semitic
Languages.*

(See FACULTY OF DIVINITY.)

Professors of Ecclesiastical History.

(See FACULTY OF DIVINITY.)

Professors of Constitutional Law and Constitutional History.

(Prior to 1909, the title of this chair was "History.")

- 1719 Charles Mackie.
- 1753 John Gordon.
- 1754 William Wallace.
- 1755 John Pringle.
- 1780 Alexander Fraser Tytler.
- 1801 William Fraser Tytler.
- 1821 Sir William Hamilton.
- 1837 George Skene.
- 1842 James Frederick Ferrier.
- 1846 Cosmo Innes.
- 1874 Aeneas Jas. Geo. Mackay.
- 1881 John Kirkpatrick.
- 1909 JOHN HEPBURN MILLAR.

Professors of History.

- 1894 George W. Prothero.
- 1899 RICHARD LODGE.

Professors of Rhetoric and English Literature.

- 1762 Hugh Blair.
- 1784 William Greenfield.

- 1801 Andrew Brown.
- 1835 George Moir.
- 1840 William Spalding.
- 1845 William Edmondstoune Aytoun.
- 1865 David Masson.
- 1895 GEORGE SAINTSBURY.

Professors of Sanskrit.

- 1862 Theodor Aufrecht.
- 1875 JULIUS EGGELING.

Professors of Political Economy.

- 1871 W. B. Hodgdon.
- 1881 JOSEPH SHIELD NICHOLSON.

Professors of Education.

- 1876 Simon Somerville Laurie.
- 1903 ALEXANDER DARROCH.

Professors of Fine Arts.

- 1880 GERARD BALDWIN BROWN

Professor of Celtic Languages, Etc.

- 1882 Donald Mackinnon.
- 1914 WILLIAM JOHN WATSON.

Professor of Ancient History and Geography.

- 1881 PETER HOME BROWN.

FACULTY OF SCIENCE.

[As Constituted in 1823 by Ordinance No. 12 (General No. 7).]

This Faculty embraces the Chairs of Mathematics, Natural Philosophy, Botany, Anatomy, Chemistry, Physiology, Natural History, Astronomy, Agriculture, Engineering, Geology, Public Health, and Bacteriology.

PROFESSORS IN THE SUBJECTS NOW EMBRACED IN THE FACULTY.

For Professors of Mathematics and Natural Philosophy, see under FACULTY OF ARTS. For Professors of Botany, Anatomy, Chemistry, Physiology, Natural History, Public Health, and Bacteriology, see under FACULTY OF MEDICINE.

Professors of Astronomy.

- 1786 Robert Blair.
- 1834 Thomas Henderson.

- 1846 Charles Piazza Smyth.
- 1889 Ralph Copeland.
- 1905 Frank Watson Dyson.
- 1910 RALPH ALLEN SAMPSON.

Professors of Agriculture.

- 1790 Andrew Coventry.
 1831 David Low.
 1854 John Wilson.
 1885 ROBERT WALLACE.

Professors of Engineering.

- 1868 Fleeming Jenkin.
 1885 George Frederick Armstrong.
 1901 THOMAS HUDSON BEARE.

Professors of Geology.

- 1871 Archibald Geikie.
 1882 James Geikie.
 1914 THOMAS JOHN JEHU.

Professor of Bacteriology.
 (See FACULTY OF MEDICINE.)

- Professor of Technology.*
 1855 George Wilson.
 [Chair abolished in 1859.]

FACULTY OF DIVINITY.

This Faculty, the second in date, consists of the Chairs of Divinity, Hebrew and Semitic Languages, Ecclesiastical History, and Biblical Criticism and Antiquities.

PROFESSORS IN THE FACULTY OF DIVINITY SINCE 1620.

Professors of Divinity.

- 1620 Andrew Ramsay.
 1627 Henry Charteris.
 1629 James Fairley.
 1630 John Sharpe.
 1648 Alexander Colvill.
 1649 Samuel Rutherford.
 1650 David Dickson.
 1662 Patrick Scougall.
 1664 William Keith.
 1675 Laurence Charteris.
 1682 John Menzies.
 1683 John Strachan.
 1690 George Campbell.
 1701 George Meldrum.
 1709 William Hamilton.
 1732 James Smith.
 1733 John Gowdie.
 1754 Robert Hamilton.
 1779 Andrew Hunter.
 1809 William Ritchie.
 1828 Thomas Chalmers.
 1844 John Lee.
 1859 Thomas J. Crawford.
 1876 Robert Flint.
 1903 WILLIAM PATERSON PATER-
 SON,

Professors of Hebrew.

- 1642 Julius Conradus Otto.
 1656 Alexander Dickson.
 1679 Alexander Amedeus.
 1681 Alexander Douglas.
 1692 Patrick Sinclair.
 1694 Alexander Rule.
 1702 John Goodall.
 1719 James Crawford.
 1732 William Dawson.
 1751 James Robertson.
 1792 George Husband Baird.
 1793 William Moodie.
 1812 Alexander Murray.
 1813 Alexander Brunton.
 1848 David Liston.
 1880 David Laird Adams.
 1892 John Dobie.
 1895 ARCHIBALD ROBERT
 STIRLING KENNEDY.

Professors of Ecclesiastical History.

- 1702 John Cumming.
 1715 William Dunlop.
 1726 Matthew Crawford.
 1737 Patrick Cumming.

1762 Robert Cumming.
 1788 Thomas Hardie.
 1799 Hugh Meiklejohn.
 1831 David Welsh.
 1844 James Robertson.
 1861 William Stevenson.
 1872 Robert Wallace.

1876 Malcolm Campbell Taylor.
 1908 JAMES MACKINNON.

*Professors of Biblical Criticism and
 Biblical Antiquities.*

1847 Robert Lee.
 1868 Arch. Hamilton Charteris.
 1898 JOHN PATRICK.

FACULTY OF LAW.

To this Faculty belong eight Chairs, viz. : —Public Law, Civil or Roman Law, Constitutional Law and Constitutional History, Scots Law, Forensic Medicine, Conveyancing, Political Economy, and Ancient History and Palæography.

PROFESSORS IN THE FACULTY OF LAW SINCE 1707.

Professors of Public Law.

1707 Charles Areskine.
 1734 William Kirkpatrick.
 1735 George Abercrombie.
 1759 Robert Bruce.
 1764 James Balfour.
 1779 Allan Maconochie.
 1796 Robert Hamilton.
 1832 * * *
 1862 James Lorimer.
 1890 Sir LUDOVIC JAMES GRANT,
 Bt.

Professors of Civil Law.

1710 James Craig.
 1732 Thomas Dundas.
 1745 Kenneth M'Kenzie.
 1755 Robert Dick.
 1792 John Wilde.
 1800 Alexander Irving.
 1827 Douglas Cheape.
 1842 A. Campbell Swinton.
 1862 James Muirhead.
 1889 Henry Goudy.
 1893 JAMES MACKINTOSH.

Professor of Constitutional Law and Constitutional History.

1909 JOHN HEPBURN MILLAR.
 (For previous incumbents of the
 same Chair, under its earlier title,
 "History," see FACULTY OF
 ARTS.)

Professors of Scots Law.

1722 Alexander Bayne.
 1737 John Erskine.
 1765 William Wallace.
 1786 David Hume.
 1822 George Joseph Bell.
 1843 John Schank More.
 1861 George Ross.
 1864 George Moir.
 1865 Norman Macpherson.
 1888 JOHN RANKINE.

Professors of Forensic Medicine.

1807 Andrew Duncan, *secundus*.
 1820 William Pulteney Alison.
 1822 Robert Christison.
 1832 Thomas Stewart Traill.
 1862 Sir Douglas MacLagan.
 1897 Sir Henry Duncan Littlejohn.
 1906 HARVEY LITTLEJOHN.

Professors of Conveyancing.

1825 Macvey Napier.
 1847 Allan Menzies.
 1856 A. Montgomerie Bell.
 1866 James Stuart Fraser Tytler.
 1892 John Philp Wood.
 1900 JOHN LITTLE MOUNSEY.

Professors of Political Economy.
(See FACULTY OF ARTS.)

*Professor of Ancient History
and Palæography.*
(See FACULTY OF ARTS.)

FACULTY OF MEDICINE.

The Faculty consists of fourteen Chairs :—Botany, Physiology, Medicine, Anatomy, Chemistry, Midwifery, Natural History, Materia Medica, Surgery, Clinical Surgery, Forensic Medicine, Pathology, Public Health, Bacteriology, and Clinical Medicine. The Professors of Medicine and Materia Medica are also Professors of Clinical Medicine. Some of these Chairs were instituted in the seventeenth century, but it does not appear that the Medical School and Faculty of the University were established until the beginning of the eighteenth century.

PROFESSORS IN THE FACULTY OF MEDICINE SINCE 1676.

Professors of Botany.

- 1676 James Sutherland.
- 1706 Charles Preston.
- 1712 George Preston.

Professors of Medicine and Botany.

- 1738 Charles Alston.
- 1761 John Hope.
- 1786 Daniel Rutherford.
- 1820 Robert Graham.
- 1845 John Hutten Balfour.

Professors of Botany.

- 1879 Alexander Dickson.
- 1888 ISAAC BAYLEY BALFOUR.

Professors of Medicine.

- 1685 { Sir Robert Sibbald.
- James Halket.
- Archibald Pitcairne.

Professors of Institutes of Medicine or Physiology.

- 1724 William Porterfield.
- 1726 { Andrew St Clair.
- John Rutherford.
- 1747 Robert Whytt.
- 1766 William Cullen.
- 1773 Alex. Monro Drummond.
- 1776 James Gregory.

- 1789 Andrew Duncan.
- 1819 Andrew Duncan, *secundus*.
- 1821 William Pulteney Alison.
- 1842 Allen Thomson.
- 1848 John Hughes Bennett.
- 1874 William Rutherford.
- 1899 Sir EDWARD ALBERT
SCHÄFER.

Professors of Medicine.

- 1724 William Porterfield.
- 1726 { Andrew St Clair.
- John Rutherford.
- 1747 Robert Whytt.
- 1766 John Gregory.
- 1773 William Cullen.
- 1790 James Gregory.
- 1821 James Home.
- 1842 William Pulteney Alison.
- 1855 Thomas Laycock.
- 1876 Sir Thomas Grainger Stewart.
- 1900 JOHN WYLLIE.

Professors of Anatomy.

- 1705 Robert Elliot.
- 1708 Adam Drummond.
- 1716 John M'Gill.
- 1720 Alexander Monro.
- 1754 Alexander Monro, *secundus*.
- 1798 Alexander Monro, *tertius*.

- 1846 John Goodsir.
 1867 Sir William Turner.
 1903 Daniel John Cunningham.
 1909 ARTHUR ROBINSON.

*Professors of Chemistry and
 Medicine.*

- 1713 James Crawford.
 1726 Andrew Plummer.
 1726 John Innes.
 1755 William Cullen.
 1766 Joseph Black.
 1795 Thomas Charles Hope.

Professors of Chemistry.

- 1844 William Gregory.
 1858 Lyon Playfair.
 1869 Alexander Crum Brown.
 1908 JAMES WALKER.

Professors of Midwifery.

- 1726 Joseph Gibson.
 1739 Robert Smith.
 1756 Thomas Young.
 1780 Alexander Hamilton.
 1800 James Hamilton.
 1840 Sir J. Y. Simpson, Bart.
 1870 [Sir] Alex. Russell Simpson.
 1905 Sir JOHN HALLIDAY CROOM.

Professors of Natural History.

- 1770 Robert Ramsay.
 1779 John Walker.
 1804 Robert Jameson.
 1854 Edward Forbes.
 1855 George James Allman.
 1870 Sir Wyv. T. C. Thomson.
 1882 JAMES COSSAR EWART.

Professors of Materia Medica.

- 1768 Francis Home.
 1798 James Home.
 1821 Andrew Duncan, *secundus*.

- 1832 Sir Robert Christison, Bart.
 1877 Sir THOS. RICHARD FRASER.

Professors of Surgery.

- 1777 Alexander Monro, *secundus*.
 1798 Alexander Monro, *tertius*.
 1831 John William Turner.
 1836 Sir Charles Bell.
 1842 James Miller.
 1864 James Spence.
 1882 John Chiene.
 1909 ALEXIS THOMSON.

Professors of Clinical Surgery.

- 1803 James Russell.
 1833 James Syme.
 1869 Joseph Lister.
 1877 Thomas Annandale.
 1908 FRANCIS M. CAIRD.

Professors of Forensic Medicine.

(See FACULTY OF LAW.)

Professors of Pathology.

- 1831 John Thomson.
 1842 William Henderson.
 1869 W. R. Sanders.
 1881 William Smith Greenfield.
 1912 JAMES LORRAIN SMITH.

Professors of Military Surgery.

- 1806 John Thomson.
 1823 Sir George Ballingall.
 [Chair abolished.]

Professor of Public Health.

- 1898 CHAS. HUNTER STEWART.

Professor of Bacteriology.

- 1913 JAMES RITCHIE.

Professor of Clinical Medicine.

- 1913 WILLIAM RUSSELL.

FACULTY OF MUSIC.

Reid Professors of Music.

- 1839 John Thomson.
 1841 Sir Henry Rowley Bishop.
 1844 Henry Hugh Pearson.

- 1845 John Donaldson.
 1865 Sir Herbert Stanley Oakeley.
 1891 Frederick Niecks.
 1914 DONALD FRANCIS TOVEY.

The Principal is a member of this Faculty *ex officio*, and Professor Walker was appointed a member by the Senatus.

GIFFORD LECTURERS IN NATURAL THEOLOGY.

(LECTURESHIP INSTITUTED 1887. See p. 454.)

- 1888 James Hutchison Stirling, LL.D.
- 1890 Professor Sir George G. Stokes, Bart. (Cambridge).
- 1892 Professor Otto Pfeleiderer (Berlin).
- 1894 Emeritus-Professor Campbell Fraser.
- 1896 Professor C. B. Tiele (Leyden).
- 1899 Professor William James (Harvard).
- 1903 Professor H. M. Gwatkin (Cambridge).
- 1905 Emeritus-Professor Simon S. Laurie.
- 1907 Emeritus-Professor Robert Flint (no lectures delivered).
- 1909 W. Warde Fowler, M.A. (Oxford).
- 1911 Bernard Bosanquet, LL.D.
- 1913 Professor HENRI BERGSON (Paris).

**GUNNING LECTURERS IN THE FACULTY OF
DIVINITY.**

(LECTURESHIP INSTITUTED 1889. See p. 454.)

- 1893 Rev. Adam Milroy, D.D.
- 1896 Rev. Hugh Macmillan, D.D., LL.D.
- 1899 Rev. John M. Robertson, D.D.
- 1904 Rev. John Morrison, D.D.
- 1910 Rev. David Watson, D.D.
- 1913 Rev. BRUCE M'EWEN, M.A., B.D., D.Phil.

**MUNRO LECTURERS IN ANTHROPOLOGY AND
PREHISTORIC ARCHÆOLOGY.**

(LECTURESHIP INSTITUTED 1910.)

- 1911 Robert Munro, M.D.
- 1912 Professor James Geikie.
- 1913 David G. Hogarth, M.A.
- 1914

GENERAL COUNCIL OF THE UNIVERSITY.

The General Council consists of the Chancellor, the Members of the University Court, the Professors, and the Graduates of the University. The fee for registration is £1.

The Register, now containing 12,288 Members, is conclusive of the rights of persons to be Members up to 1st January 1915. By the Universities Elections Amendment (Scotland) Act all candidates for graduation must pay the Registration Fee before they can appear for graduation.

Under the Universities Act of 1858, and the Commissioners' Ordinance No. 1, section 3, the Council meets twice a year—viz., on the *first Wednesday of May* and on the *last Friday in October*, at half-past three o'clock P.M., "to take into their consideration all questions affecting the well-being and prosperity of the University, and to make representations from time to time on such questions to the University Court, who shall consider the same, and return to the Council their deliverance thereon." All proposed improvements in the arrangements of the University "shall be submitted to the University Council for their consideration."

By the Universities Act, 1889, besides the two statutory meetings above mentioned, the Council "may hold special meetings at the instance of the Chancellor, who shall convene such meetings on a requisition from a quorum of members, and the Council may adjourn any meeting, and may appoint Committees to investigate into and report upon any matter remitted to them or to carry out instructions given to them by the Council." The Commissioners under this Act have fixed the quorum of the General Council at ten for every thousand or fraction of a thousand of members on the register, but this provision does not apply to the statutory half-yearly meetings, or to adjourned meetings.

The General Council recommend that, in the case of an Election of Assessors by the Council, the names and designations of persons to be proposed for the office, together with the names and designations of the proposers and seconders of such persons, shall be intimated to the Secretary at least ten days before the meeting of the Council at which the election takes place.

At the meetings of the General Council, in the absence of the Chancellor, Rector, and Principal, the Chancellor's Assessor, and

in his absence the Rector's Assessor shall preside ; and in the absence of all of these, a Chairman shall be elected by the meeting, but no member of Senatus can preside at any meeting held for the election of an Assessor or Assessors. The Chairman shall decide all points of order, and has a deliberative and a casting vote ; and in case of an equality of votes at the conclusion of a poll, the Chairman, or any one appointed by the University Court to act for him, shall have a casting vote.

The General Council of this University, and that of the University of St Andrews, together return a Member of Parliament.

The *Chancellor* of the University and *four of the Assessors* in the University Court are elected by the Council. The Chancellor holds office for life, and the Assessors for four years. Two of the Assessors retire biennially, but may be re-elected. In case of a casual vacancy the person elected to fill it retires when the person whom he succeeded would in ordinary rotation have retired. No member of the Senatus can vote or take part in the election of any Assessor of the General Council. The next election of two Assessors will take place at the statutory half-yearly meeting in *October 1915*.

Members of the General Council may borrow books from the Library and have out at one time five volumes on payment of an annual fee of 10s. 6d., or a single payment of £5 ; or may have ten volumes on payment of an annual fee of £1, 1s., or a single payment of £10.

Two Standing Committees are appointed by the General Council—viz., a Business Committee and a Finance Committee. The Conveners are :

Business Committee—J. B. Clark, M.A.

Finance Committee—Thomas J. Millar, M.A., LL.B., C.A.

STUDENTS' REPRESENTATIVE COUNCIL.

Presidents—Ian A. Mackenzie, M.A., LL.B. ; D. B. Keith, M.A., LL.B. ; A. J. Ferguson, M.A. *Hon. Secretary*—James J. Healy, M.B., Ch.B. *Hon. Treasurer*—Arthur Rawson, B.Sc. *Hon. Assist. Secretary*—W. G. M. Dobie, M.A. *Hon. Auditor*—James Walker, C.A.

The Students' Representative Council was founded in 1884. Its functions are—(1) To represent the Students in matters affecting their interests ; (2) To afford a recognised means

of communication between the Students and the University authorities; and (3) To promote social life and academic unity among the Students. The Council is elected annually in November, partly by the Students of the different Faculties, and partly by the recognised Students' societies. The Ordinary Meetings are held in November, December, January, February, March, May, June, July, and October. At the November meeting an executive committee is elected, consisting of the office-bearers, three members elected by Council, and the Conveners of all Committees. The Council also carries out its work by means of the following Standing Committees:—The Inter-Universities, Library, Amusements, *Student*, International Academic, and Women's Committees. It publishes a University Magazine (*The Student*) weekly during the Winter Session, and occasionally during the Summer.

The Commissioners, acting under the Universities Act, 1889, have issued an Ordinance to the following effect:—

- (1) The Students' Representative Council shall submit to the University Court the regulations under which it exists, and these regulations as approved shall form the constitution of the Students' Representative Council.
- (2) After the University Court has approved of the constitution, alterations must receive the approval of the University Court.
- (3) 1. The Council may petition the Senatus as to any matter affecting the teaching and discipline of the University, and the Senatus shall dispose of the matter or shall, if so prayed, forward such petition to the University Court, with such observations as it may make thereon.
2. The Council may petition the University Court as to any matter affecting the Students other than those falling under Sub-section 1.
3. This Section shall not prejudice any right of appeal under Section 6, Sub-section 2, of the said Act, nor the powers and jurisdiction of the Senatus, as to teaching and discipline.

MATRICULATION.

University Matriculation consists in signing the *Sponsio Academica*, the Student thus entering his or her name in the Album of Students of the University, and in paying a fee of £1, 1s. for the academic year (1st Oct. to 1st Oct.), or a fee of 1cs. 6d. for a Summer Session (1st April to 1st October). No

person shall be deemed to be a Matriculated Student or shall enjoy any of the privileges of a Matriculated Student unless, in addition to paying the matriculation fee, he is enrolled as a Student in attendance in one or more classes in the University, and has paid the fees entitling him to such attendance: Provided that nothing herein contained shall affect the right of the University Court to exact a fee in lieu of and not exceeding the matriculation fee from any candidate for any examination or for graduation, not being at the time a Matriculated Student, in addition to the fee payable for such examination or graduation (see p. 122, etc.). No one can attend a University Class without matriculating, except in those special cases in which an Entrance Fee of 5s. only is exacted (see page 35).

The Matriculated Students elect the Rector of the University. In case of an equality of votes, the Chancellor, or failing him, the Principal, has the casting vote. Students are also admitted to the use of the University Library, and on certain days to the Museum of Natural History.

Candidates for Graduation who are attending Extra-Academical Lectures in Edinburgh, and not attending Classes within the University, must, at the beginning of each year, enrol their names in a book kept for that purpose, and pay a Fee of the same amount as the Matriculation Fee. In respect of such payment they have a right to use the University Library.

The *Sponsio Academica* signed by students on matriculating is as follows:—

QUOD FAUSTUM FELIXQUE SIT.

A.D.—

Ego Universitatis Academicæ Edinburgensis Discipulus sincerè ac sanctè promitto quod et syngraphâ hac meâ in perpetuum testatum cupio, mihi ante omnia cordi ac curæ futurum veræ pietatis studium; me etiam in assuetis academici curriculum studiis sedulum fore, ut adolescentem bene institutum decet; et quamdiu in illo curriculo permansero praeceptoribus omnibus morigerum memet præstiturum, nec ullius dissidii aut tumultus clam palamve vel auctorem vel participem futurum, et per reliquam vitam Universitatem Academicam Edinburgensem ipsam grato et benevolo animo prosecuturum, idque omnibus officiis pro facultate mea et occasione data testaturum esse.

NUMBERS OF MATRICULATED STUDENTS.

		Academic Year.
FOR YEAR :—		1913-14
I. Faculty of Arts		1197
II. Faculty of Science		408
III. Faculty of Divinity		63
IV. Faculty of Law		245
V. Faculty of Medicine		1272
VI. Faculty of Music		19
		—
FOR SUMMER SESSION :—		3204
I. Faculty of Arts		21
II. Faculty of Science		18
III. Faculty of Law		7
IV. Faculty of Medicine		32
		— 78
Total Matriculation (1st Oct. to 1st Oct.)		3282

NON-MATRICULATED EXTRA-ACADEMICAL
GRADUATION STUDENTS (WOMEN).

I. Faculty of Medicine :—	1913-14.
(1st Oct. to 1st Oct.)	78

UNIVERSITY ENTRANCE FEE FOR NON-MATRICULATED
STUDENTS.

The University Court may admit non-Matriculated Students to any Class, on payment of an Entrance Fee (fixed at 5s.), in addition to the Class Fee ; but such attendance (1) will not qualify for Graduation, (2) nor entitle the Student to a Certificate of Attendance, (3) nor confer any other University privilege.

Courses which may be attended under this Regulation :—

- Fine Art, Short additional Courses on.
- Procedure and Evidence.
- Mental Diseases.
- Diseases of the Eye.
- Clinical Instruction on Diseases of Children.
- Comparative Embryology.
- Forestry.
- Agricultural Entomology.
- Music Classes.
- Practical Pathological Bacteriology.
- Experimental Pharmacology.

Celtic (for Classes not qualifying for Graduation).

German Literature and Prose Composition Courses, twenty lectures each.

French History and Literature Courses, twenty lectures each.

Advanced Practical Physiology.

Diseases of Tropical Climates.

Mackay Lectures and other non-Graduation Courses on History, by Mr D. P. Heatley.

Garton Lectures on Colonial and Indian Agriculture.

Ancient History (Scottish) and Palæography.

Engineering Junior Course—Spring Term (strength and elasticity of materials).

Military Subjects.

Lectures on Dairying, in Agriculture Course.

Applied Anatomy.

Special Lectures on Engineering Laboratory work.

Law of Landlord and Tenant.

Elementary Psychology.

Special Courses in Psychology.

Educational Systems.

Banking.

Special Advanced Courses by Professor J. Mackinnon.

Neurology.

Physical Therapeutics.

Advanced Honours Mathematics.

Genetics.

Applied Zoology (Veterinary Course).

Mycology (Veterinary Course).

Number of Non-Matriculated Students who have paid	1913-14
the Entrance Fee (1st Oct. to 1st Oct.)	85

Other Courses may be sanctioned under this Regulation.

DISCIPLINE.

Students are subject to the disciplinary jurisdiction of the Senatus. Among offences visited with severe academic penalties may be mentioned riotous or disorderly conduct, copying at examinations, and mutilating or disfiguring books belonging to the Library.

GRADUATION CEREMONIALS—PRECEDENCE, &c.

The relative precedence of each Faculty is as follows: 1. Divinity; 2. Law; 3. Medicine; 4. Arts; 5. Science; 6. Music. The Deans take precedence in their respective Faculties, followed by the Members of their Faculties in the order of the dates of their Commissions.

Public Graduation Ceremonials are held annually about the end of March (chiefly for Divinity, Law, Science, and Music), in July (two Ceremonials—one chiefly for Arts, and the other for Medicine and Science), in October (for Arts, etc.), and in December (for Medicine, etc.).

Graduates must appear on these occasions in Academic Costume.

ACADEMIC COSTUME.

NOTE.—Graduates are requested to appear for Graduation wearing one hood only—viz., the one which indicates the Degree they are about to receive.

Chancellor. Robe of Black Brocaded Satin, trimmed with Gold Lace, and with Gold Frogs down fronts and on sleeves. Black Silk Velvet Trencher, with Gold Button and Tassel.

Vice-Chancellor. Robe and Trencher same as Chancellor's, but trimmed with Silver in place of Gold.

Rector.—Black Silk Gown, with Crimson Silk Velvet Sleeves. The gown is trimmed round the collar and down the front edges with Broad Gold Lace, and the sleeves round bottom with a narrower Gold Lace. Black Silk Velvet Trencher, with Gold Button and Tassel.

Principal.—Mauve Corded Silk Robe trimmed with Velvet to match. Black Silk Velvet Trencher, with Gold Button and Tassel.

Members of University Court.—Black Silk Robe, open sleeve, with Gold Frog on each sleeve.

With all of the above, Hoods appropriate to the Degree are worn.

The ordinary form of Gowns worn by Graduates of the University is the same in all the Faculties—viz., black silk or

stuff, with long sleeves. The distinctive part of the costume is in the *Hood* appropriated to each Faculty. These Hoods are as follow :

LL.D.—Black *cloth*, lined with *blue* silk.

LL.B.—Black *silk*, lined with *blue* silk, bordered with white fur.

B.L.—Black *silk*, edged with *blue* silk three inches broad, trimmed with white fur.

D.D.—Black *cloth*, lined with *purple* silk.

B.D.—Black *silk*, lined with *purple* silk, bordered with white fur.

M.D.—Black *cloth*, with appended cape, lined and faced with *crimson* silk.

Ch.M.—Black *velvet*, lined with *golden* silk.

M.B. and Ch.B.—Black *silk*, lined with *crimson* silk, bordered with white fur.

D.Sc.—Black *cloth*, lined with *green* silk.

B.Sc.—Black *silk*, lined with *green* silk, bordered with white fur.

M.A.—Black *silk*, lined with *white* silk.

D.Litt.—Black *cloth*, lined with *royal blue* and *maize shot* silk.

D.Phil.—Black *cloth*, lined with *Vesuvius* and *white shot* silk.

Mus.D.—Rich scarlet *cloth*, with rich *white* corded silk lining.

Mus.B.—Scarlet *silk*, with *white* silk lining, edged with *white* fur.

The full Academic Dress for Doctors is a Gown of superfine Scarlet Cloth, loose sleeves, the cape and facings down the front covered, and the sleeves lined, with rich silk of the colour proper to the Degree. Birretum of black silk velvet.

SPONSIO ACADEMICA FOR M.A., ETC.

Nos qui Nomina subsignamus Magisterii titulo jamjam donandi Spondemus nos in omni debitae gratitudinis officio erga Universitatem Academicam Edinburgensem ad extremum vitae halitum perseveraturos.

SPONSIO ACADEMICA FOR GRADUATES IN MEDICINE.

Ego Doctoratus in Arte Medica titulo jam donandus, sancte coram Deo cordium scrutatore, spondeo, me in omni grati animi officio erga Universitatem Academicam Edinburgensem ad extremum vitæ halitum perseveraturum.

Tum porro Artem Medicam caute, caste, probeque exercitaturum, et quoad potero, omnia ad ægrotorum corporum salutem conducentia cum fide procuraturum. Quæ, denique, inter medendum visa vel audita sileri conveniat, non sine gravi causa vulgaturum.

Ita præsens spondenti adsit Numen.

REGULATIONS OF THE UNIVERSITY COURT.

I. REGULATIONS AS TO THE PERFORMANCE OF THE DUTIES OF PROFESSORS, UNIVERSITY LECTURERS, UNIVERSITY ASSISTANTS AND EXAMINERS. DURING THEIR TEMPORARY ABSENCE OR DISABILITY.

(a) Professors.

1. When a Professor is prevented from teaching his Class for more than three successive days, an arrangement shall be made for his Class being taught during his absence; and such arrangement shall be intimated to, and be subject to the approval of, his Faculty, or, in the case of an emergency, the Dean of his Faculty.

2. No arrangement for teaching a Class in the absence of the Professor shall continue longer than one week without the sanction of the Senatus Academicus; or, if there be no sufficiently early meeting of the Senatus, without the *interim* sanction of the Faculty, or of the Principal and Deans Committee.

3. If the absence is likely to extend to four weeks or upwards, the sanction of the Senatus shall require the confirmation of the University Court. The statement of the arrangement for teaching a Class in the absence of a Professor, submitted by the Senatus to the University Court, shall specify the remuneration proposed to be given to the Professor's Substitute, which shall be subject to revision by the University Court.

4. The remuneration as fixed by the Court shall be paid by the Professor to his Substitute, unless the Court shall, in any particular case, decide that special circumstances make it equitable to relax the rule, and to pay part of the remuneration out of the remaining revenue (if any) of the University for the year, as defined in Section XI., 8, of Ordinance No. 27 [Edinburgh, No. 6].

5. No Professor shall employ any one other than a Colleague or University Lecturer or University Assistant to teach his Class for him, without obtaining the sanction of his Faculty or, in the case of an emergency, the Dean of his Faculty ; and such sanction shall be communicated to the Senatus at its first meeting thereafter.

(b) University Lecturers.

1. When a Lecturer is prevented from performing the work of his office for more than three successive days, he shall arrange for its performance during his absence ; and the arrangement made by him shall be intimated to, and be subject to the approval of, either the Head of his Department, or the Dean of his Faculty, as the case may require.

2. No such arrangement shall continue longer than one week without the sanction of the Senatus Academicus ; or, if there be no sufficiently early meeting of Senatus, without the *interim* sanction of the Faculty, or of the Principal and Deans Committee.

3. If the absence is likely to extend to four weeks or upwards, the sanction of the Senatus shall require the confirmation of the University Court. The statement of the arrangement submitted by the Senatus to the Court shall suggest, for the consideration of the Court, the amount of remuneration to be given to the Substitute.

4. The remuneration of the Substitute, as fixed by the Court, shall be charged to the Lecturer, unless the Court shall, in any particular case, decide that special circumstances make it equitable to relax the rule, and to pay a part, or the whole, of the remuneration out of the remaining revenue (if any) of the University for the year, as defined in Sect. XI., 8, of Ordinance No. 27 [Edinburgh, No. 6].

(c) University Assistants.

1. When an Assistant is prevented from performing the work of his office for more than three successive days, an arrangement

shall be made, subject to the approval of the Head of his Department, for its performance during his absence.

2. No such arrangement shall continue longer than one week without the sanction of the Dean of the Faculty to which such Assistant belongs.

3. If the absence is likely to extend to four weeks or upwards, the sanction of the Senatus Academicus shall also be required. When the arrangement involves the payment of remuneration to a Substitute, a suggestion as to amount shall be submitted by the Senatus to the University Court.

4. The remuneration of the Substitute, as fixed by the Court, shall be charged to the Assistant, unless the Court shall, in any particular case, decide that special circumstances make it equitable to relax the rule, and to pay a part, or the whole of the remuneration out of the remaining revenue (if any) of the University for the year, as defined in Section XI., 8, of Ordinance No. 27 [Edinburgh, No. 6].

(d) Examiners.

1. Any University Examiner who finds himself prevented from being present at any Examination at which it is his duty to act, shall intimate this to the Dean or other Chairman of his Examining Board, who, on receiving such intimation, or otherwise becoming aware of the absence of the Examiner, shall, if possible, appoint a properly qualified Substitute to act for such Examiner.

2. In every case in which a person is appointed to act as Substitute for a University Examiner, and in which his Faculty, or Examining Committee, shall consider it necessary that the Substitute shall receive remuneration, the rate of remuneration to be paid by the Examiner (whether a Professor or Additional Examiner) to his Substitute shall be fixed by the Faculty, or Examining Committee, and shall be based upon the amount of the Fees payable to the Additional Examiners attached to the Faculty or Examining Committee.

3. All absences of University Examiners, their duration and cause, and the relative arrangements made, shall be immediately reported for approval to the Senatus Academicus, by the Chairman of the Board to which the absent Examiner is attached; and a similar Report shall, in every case of the absence of a University Examiner, be made by the Senatus Academicus to the University

Court ; provided always that such arrangements shall receive immediate effect when circumstances do not permit the previous approval of the Senatus Academicus to be obtained.

4. In every case in which a Professor shall apply for leave of absence from his duties generally, provision shall be made, under the existing Regulations regarding leave of absence to Professors, for the performance of his duties as Examiner, as well as for the performance of his duties as Teacher ; and provision shall be made for the remuneration of his Substitute in both capacities.

II. APPLICATIONS FOR ADDITIONAL (OR NON-PROFESSORIAL) EXAMINERSHIPS IN THE UNIVERSITY.

1. Applicants should lodge twenty copies of their applications (one of which should be signed), and twenty copies of any testimonials they may desire to present, with the Secretary of the Court, not later than one week before the day fixed for making appointments in each case.

2. Applicants who send in testimonials must not send more than four for any one appointment.

3. Persons may be appointed to examine in two of the thirteen Subjects of the Examinations for Graduation in Medicine, but not more, and not in more than one Subject in any one Division of the Examinations.

4. Every applicant for an appointment in Divinity must hold the degree of B.D. from a Scottish University.

Every applicant for an Examinership in Law must be a Bachelor of Laws of a Scottish University.

III. OPENING OF NEW CLASSES.

No class in addition to those existing in the University shall at any time be opened,—whether for the purpose of dividing the course on a subject necessary for graduation, or for teaching a class not requisite for graduation,—without the approval of the Senatus and the sanction of the University Court.

IV. RECOGNITION OF EXTRA-ACADEMICAL TEACHERS.

1. Every applicant for recognition shall furnish for the information of the Authorities of the University :—

(1.) A Statement of his Registered Qualification or Qualifications, and of the name of the Office, or Appointment (if

any) which he holds, as a Teacher of the Subject in which he requests recognition.

- (2.) A Syllabus of his Course of Lectures ; or, in the case of a Practical Class, information of a similar kind.
- (3.) A Statement of the number of Lectures, and of the number of Written or Oral Examinations, in the Course ; or, in the case of a Practical Class, information of a similar kind.
- (4.) A Short Description of his Accommodation for a Class ; and of the Apparatus, Illustrative Specimens, Diagrams, and other appliances, at his disposal for teaching the Subject in which he desires recognition.
- (5.) A Statement of his opportunities of studying the Subject, and of the length of time devoted thereto.
- (6.) A Statement of the experience he has had in teaching the Subject.
- (7.) A Note of the Titles of his published Contributions to the Science of the Subject.
- (8.) A Statement as to whether his Course or Courses of Instruction have been already recognised by any University or other examining body, and, if so, what means were adopted for ascertaining his qualifications for teaching.

2. In the case of every Applicant for recognition residing in Edinburgh or its neighbourhood, an inspection shall be made of his teaching Appliances and Accommodation for teaching.

3. Every recognised Extra-Academical Teacher shall annually furnish the University with the information regarding his Course or Courses which is required from the University Professors as to (1.) The number of Students attending the recognised Course or Courses of Instruction ; (2.) The number of meetings for ordinary Class Work in the Session, and in each week thereof ; (3.) The number of Special Written Examinations ; (4.) The system of conducting the ordinary Class Work, and the number of meetings devoted to each kind of work.

4. The Certificate of Attendance granted to Students by recognised Extra-Academical Teachers, should, in all cases, state the duration of the Course and the number of Meetings for Systematic,

Tutorial, and Practical Instruction, respectively ; the number of occasions on which attendance was ascertained, and the number of those occasions on which the Student was present ; and the number of Class Examinations held during the Course, and whether or not the Student has taken a satisfactory part in the work of the Course, including the Class Examinations, if any. The Certificate should also state the general scope of the Course ; and, in particular, in the case of Chemistry, that the Course included Organic as well as Inorganic Chemistry ; in the case of Midwifery, that it included the diseases of Women and Children ; and, in the case of Practical Materia Medica, that it included Pharmacognosy, Pharmacy, Dispensing, and the writing of Prescriptions.

5. In the event of an Extra-Academical Teacher removing from the premises or building occupied by him for teaching a recognised Course, such Teacher shall be required to intimate his removal to the University Court, in order that the Court may have an opportunity of considering whether the Accommodation in the building to which he has removed is adapted for the purpose of teaching the Subject in which he is recognised.

6. When application is made for the recognition of a Course taught by two or more Teachers in conjunction, information shall be given of the share to be taken by each Teacher in such conjoined Course ; and the recognition of such conjoined Courses, and of each of the persons recognised as Teachers of a conjoined Course shall, *ipso facto*, terminate should one or more of the Teachers cease to conduct the Course, or should any material change be made in the share of each Teacher in the teaching of the conjoined Course.

7. The recognition of any Teacher who fails to furnish the information called for in Section 3, or an explanation relative to such failure, or who has ceased for the period of two consecutive Sessions to teach the subject on which he is recognised, shall, *ipso facto*, terminate.

V. REGULATIONS AS TO ASSISTANTS TO LECTURERS.

1. The University Court may from time to time, after consultation with the Senatus, appoint an Assistant or Assistants to any Lecturer who does not hold office as a Junior Lecturer or as an Assistant to a Professor.

2. The duties of each Assistant appointed in terms of these Regulations shall be defined from time to time by the Lecturer, with the approval of the Senatus, obtained through the relative Board of Studies and Faculty.

3. Each Assistant may be appointed by the University Court, on the recommendation of the Lecturer whom he is to assist. The appointment shall be for one year, but shall be renewable from time to time for the like period on the like recommendation.

4. An Assistant shall not be dismissed during the period of his appointment, except by the University Court.

5. All Assistants appointed as hereinbefore provided shall be styled University Assistants, Tutors, or Demonstrators, as the University Court may determine. They shall be Officers of the University, and shall have such use of the Library and such other privileges as the University Court may from time to time determine.

6. Assistants appointed in terms of these Regulations shall be eligible as Junior Lecturers, and *vice versa*, and both offices may be held at the same time by the same person.

7. Nothing in these Regulations shall prevent a Lecturer, as defined in No. 1 hereof, who has been appointed on the footing that his remuneration depends in whole or in part on the amount of the fees drawn for his Class, from employing at his own expense such private Assistants as he may think necessary, but such private Assistants shall not take part in the public work of the Class without the permission of the University Court, and the foregoing provisions shall not apply to such private Assistants, nor to others not directly assisting the Lecturer in the work of the Class.

UNIVERSITY BUILDINGS.

THE University Buildings at present consist of: The College, or University (Old) Building, with Dome, in South Bridge Street; The New Buildings (School of Medicine), and the M'Ewan Hall, Teviot Place; The Music Class Room, Park Place; The John Usher Institute of Public Health, Warrender Park Road; The Engineering and Natural Philosophy Departments, Infirmary Street; The Departments of Agriculture Forestry, and Entomology, George Square.

THE UNIVERSITY (OLD) BUILDING.

The Old Building, on the site of "Kirk o' Field," the scene of the murder of Darnley, contains the Library and Reading Rooms; the Class Rooms of the Faculties of Arts, Divinity, and Law, the Natural History, and some other Science Class Rooms; the Theological Library and Reading Room; the Examination Rooms; the Geological and Petrological Laboratories; the Geological, Fine Art, and Natural History Museums; the Senate Hall, University Court Room, and the Offices of the Senatus, the Court, and the Students' Representative Council.

The work of teaching began in 1583, but until the end of the eighteenth century, the professors and students were very imperfectly housed. In a Memorial, dated 1768, Principal Robertson complains that the buildings, "poor in themselves, seem not to have been carried on according to any regular plan, such as takes place in other academical structures which have been erected on more opulent foundations; and hence the whole fabric has a mean, irregular, and contemptible appearance." At that time the number of students was between six and seven hundred, and that of professors twenty-one.

Twenty years later a writer in the *Scots Magazine* complains that "in 1788 the buildings of the University are in the same ruinous condition that they were in in 1768, and the most celebrated University at present in Europe is the worst accommodated." A scheme for rebuilding, often discussed, was now taken up seriously by the Town Council, encouraged by promise of liberal aid from Government. A plan was obtained from Robert Adam, then at the height of his reputation, and the foundation stone of "the New College of Edinburgh" was solemnly laid on 16th November 1789.

Adam's original plans, preserved in the Soane Museum in London, divide the space now occupied by the College buildings into two quadrangles, a smaller to the east, entered as now from South Bridge Street, and a larger beyond it to the west, with a block of academic buildings lying between. This arrangement was doubtless suggested by the rapid rise of the ground from north-east to south-west. Round these two courts there were to be Class Rooms, Museums, a Library, and also houses for the Principal and Professors. The western side of the larger court was to be occupied by a Graduation Hall and Chapel; and the great quadrangle was to be flanked with corridors, affording communication between the class-rooms. The building, begun chiefly on the eastern and northern sides, was, however, soon stopped by the death of the architect in 1792, and by failure of funds. In 1815 a Government Commission was appointed to collect funds and to carry out the undertaking, though in a modified form. They invited plans "for finishing the College of Edinburgh, on a reduced scale, leaving out the south front, and the cross building, which formed the small court in the original plan—regard being always had to the part already executed, and to the preservation of the architecture of Mr Adam, as far as practicable." Out of nine sets of plans sent in, those of William Henry Playfair were selected, and under his superintendence the work was practically completed in 1828, at a total cost of about £161,000.

The general character of the whole design is due to Robert Adam. Some portions were erected by him, or completed after his death from his drawings. In other parts some modification of his plans and elevations was necessary, while a third portion had to be designed anew by Playfair, who was careful to conform

to Mr Adam's design. The handsome eastern façade, with its monolithic columns 22 feet in height, was erected by Adam, who intended to have embellished it with a certain amount of sculpture. He also erected the north-west corner of the great court, of which the circular Loggie form an admired feature, carried out part of the north side, and began the western block. Playfair threw the two courts into one, and designed the north and south interior elevations anew. In the western block he adhered to Adam's designs ; but the interior treatment of the block, fitted up for the Natural History Museums, is his own ; and the "Upper Museum," now the Natural History Laboratory, is a good specimen of his style. The "circular corners" designed by Adam for his great court were retained by Playfair for his single quadrangle. On the exterior, the north front is Adam's, and its plainness is due to the fact that only a narrow lane instead of the broad Chambers Street then bounded the College on that side. Adam's handsome design for the south front was simplified by Playfair, but is still superior to the north elevation.

The difficulty of the levels in the quadrangle was satisfactorily overcome by Playfair by surrounding the court with a terrace, which affords a suitable architectural base for the noble buildings rising above it. But Playfair's great achievement is the Upper Library, a fine gallery 185 feet by 54 feet, with an arched ceiling enriched with cassettes.

The general effect of the buildings is simple and dignified. The material is mainly Craigleith stone, and the detail carving is well worked out. The single quadrangle, measuring 242 feet 6 inches from east to west, by 134 feet from north to south, is a great improvement on the original plan of 1789, though the essentials of the design are due to Adam. The interior elevations of the quadrangle, especially on the west, and the eastern front to South Bridge Street, may safely be pronounced excellent specimens of the neo-classic style.

The Dome.

Adam's original design provided for a Dome over the eastern portal, but as his sketch was not very pleasing, no steps were taken to carry out this feature until 1883, when funds came into the possession of the University, bequeathed for this purpose by Robert Cox, Esq., W.S. It was then determined to carry out

the building of the Dome from a new design by Sir R. Rowand Anderson, LL.D., Architect of the University New Buildings (School of Medicine). The present Dome, though less purely classical than the Adam-Playfair building, is pleasing and effective. An admirable finial is formed by a vigorous and athletic figure of Youth, bearing the torch of Knowledge, executed in bronze by John Hutchison, Esq., R.S.A. The Dome now contains the Fine Art Museum

THE UNIVERSITY NEW BUILDINGS.

(SCHOOL OF MEDICINE.)

In 1869 the number of students had risen to fifteen hundred, and that of Professors to thirty-three, while there were seventeen Class Rooms only for their use. An Extension Committee was therefore formed in 1873, and an appeal was made to the public for subscriptions for the purchase of a site for and the erection of complete Class Rooms, Theatres, Laboratories, and Museums for the Faculty of Medicine; for reorganising the Class Rooms in the Old Building for the Faculties of Arts, Divinity, and Law; for providing better accommodation for the Library; for erecting a Hall for examinations and academic ceremonials; and for improving the north front of the College building.

This appeal to the public yielded a sum of £148,548, 2s. 5d., which, with a grant of £80,000 from Government, and interest, rents, etc., amounted to £244,587, 4s. 8d.

These buildings (the University New Buildings), begun in 1878, were partly opened for teaching purposes in October 1880, and, after their completion, were transferred by the Committee to the University in October 1888. They are situated on a site formerly covered by Teviot Row, Park Street, and Park Place, and were designed by Sir R. Rowand Anderson, LL.D., Architect, and completed under his supervision.

They contain the Lecture and Practical Rooms, etc., of the Faculty of Medicine (excepting those of Physics, Botany, Natural History, and Public Health), the Museums of Practice of Physic, Anatomy, Chemistry, Obstetrics, Materia Medica, and Surgery; a Students' Reading Room, Students' Common Room, Faculty of Medicine Reception and Reading Rooms, and Office of the Faculty.

The style of architecture is Italian of the Cinque-Cento period,

intermediate between the Gothic and the stiff Palladian work which aims at a mere manipulation of the five orders. The main frontage presents a slightly projecting elevation, pierced by the archway which forms the principal entrance. Over the arch is an ornate window, flanked by pilasters, between which are niches for statuary; and the whole is surmounted by a bold semi-circular pediment, intended to be occupied by sculpture. The façade is three storeys in height except in the projecting west wing, which has an additional floor. On the ground floor the windows are square. Above these runs a well-marked string-course ornamented with dentils. The first-floor windows are round-headed and furnished with architraves. Next comes a broad frieze relieved at intervals with circular panels. Over this the string-course is repeated; and the upper-floor windows are separated by pilasters, and divided by shafts supporting circular tracery. The wall is finished at the top with architrave, frieze, and cornice, and crowned with a low-pitched roof. The external features have of course been influenced by the internal arrangements.

The Hughes Bennett Physiology Laboratory was erected in 1901 by Mrs Cox of Gorgie, at a cost of £2800, in memory of her father, the late John Hughes Bennett, M.D., Professor of Physiology in the University, 1848-1874. It is in direct connection with the other Physiology Laboratories, and consists of a large laboratory equipped with the most modern appliances for practical work, a small theatre for demonstrations of experiments which the students cannot perform individually, and a room used for the demonstration of microscopic specimens. Since the erection of the Hughes Bennett Laboratory, an important extension of the accommodation required for Physiology has been made by the addition of a new Lecture-room, that formerly in use having been converted into a Laboratory for the individual practical work of the students.

THE M'EWAN HALL.

In 1885, the Acting Committee for the University of Edinburgh Buildings Extension Scheme resolved to apply to Parliament for power to acquire property adjoining the University as a site for a University Hall. Certain members of the Committee were incorporated as Trustees for this purpose, and one of their number, Mr William M'Ewan, M.P., munificently offered to contribute the sum

required for the erection of the Hall, on condition that the cost of the site was provided from other sources. A Parliamentary grant of £8000 was obtained, and Mr M'Ewan having generously provided the balance required, the site was purchased. The erection of the "M'Ewan Hall," so named by the Senatus Academicus in grateful recognition of the Donor, was begun in 1888 and finished in 1897, from the designs and under the superintendence of Sir R. Rowand Anderson, LL.D. The total cost of the Hall, including the extensive scheme of mural painting executed by Mr William M. Palin, and the Grand Electric Organ, was about £115,000, and as an architectural monument it is not excelled by any Academic building in the country.

The Hall is of theatre form, and the external elevation conforms to the architectural style of the early Italian Renaissance adopted in the other University New Buildings. It is capable of holding upwards of 2000 people, and is used for Academic Ceremonials, Concerts of a high-class, and other functions approved by the University Court.

THE JOHN USHER INSTITUTE OF PUBLIC HEALTH.

Following upon the foundation of the Chair of Public Health, it was found that the accommodation available in the University Buildings for the thorough teaching of the subject and for investigation was totally insufficient. Sir John Usher, Bart., who had contributed largely to the endowment of the Chair, offered to provide such a sum as might be necessary to build and equip laboratories and class rooms in connection therewith, on condition that the University should provide the site. A site was secured in Warrender Park Road, and the building was erected from plans prepared by Messrs Leadbetter & Fairley, architects, and completed under their supervision at a cost of over £21,000. The exterior, in its architectural features, shows a treatment of the Classic Renaissance detail. The interior is equipped with the most modern appliances for teaching and research work in Bacteriology and Chemistry. The Institute, which was formally handed over to the University by Sir John Usher in June 1902, has been named, in grateful acknowledgment of his munificent gift, "The John Usher Institute of Public Health."

THE ENGINEERING DEPARTMENT.

The new block of buildings for the Engineering Department at High School Yards was completed in the winter session 1905-6. The block of buildings is T-shaped. On the ground-floor of the west front are provided, in addition to the entrance hall, a laboratory for the testing of materials and a hydraulics laboratory. In connection with the hydraulics laboratory, a water tower was constructed at the south-east angle of the building. The floor above these two laboratories is devoted mainly to a laboratory for experimental mechanics, to a class-room, which is used for advanced classes, and there is also a reading-room attached to the departmental library. The rest of the space on this floor is devoted to rooms for the staff, lavatories, etc. The back block of the building is also divided into two floors: the lower floor forms the lecture theatre of the department, and the upper floor, which has been arranged to have only north lights, forms a large drawing office. An extensive workshop has been provided by roofing in and connecting to the main building a site at the north-east corner lying between the front and back blocks of the main building. A full account of these new buildings was published as an Appendix to the CALENDAR of 1906-7.

THE NATURAL PHILOSOPHY DEPARTMENT.

The Natural Philosophy building, which was completed in 1907, was originally the Old Surgical Hospital, and in the transformation to which the hospital has been subjected, it has been found possible to preserve the outer walls almost without change.

The building has three storeys, an annex, and a tower. The principal floor contains two lecture theatres, with preparation room adjoining, the apparatus room, class rooms for tutorial work and practical physics, a library and reading room, assistants' rooms, and the professor's consultation room and laboratory. The upper floor is devoted to students' laboratories, and contains a large junior laboratory, a suite of rooms for more advanced work of different kinds, and a research room for the assistant in charge. The ground floor contains the rooms of the applied mathematics department, a workshop, an accumulator room, and a number

of research rooms so designed as to secure as great freedom as possible from vibration and from variable magnetic conditions. The tower has been used to furnish a well for a lift, and a shaft for experiments requiring considerable height, while it also gives access to a space on the roof for experiments in the open air. The annex will be available for future extension.

REID SCHOOL OF MUSIC.

The School of Music, situated immediately to the south-east of the University New Buildings, was built in 1858, from the designs of the late David Cousin. It contains the Music Class Room, with an organ of four manuals and sixty-six stops, in a handsome carved oak case ; and a Museum of interesting acoustic and antique musical instruments.

The architecture of the building is in the Italian Renaissance style of the early part of the sixteenth century.

DEPARTMENTS OF AGRICULTURE, FORESTRY, AND ENTOMOLOGY.

The growing importance of Agriculture, Forestry, and Entomology as University subjects, and the increasing attendance at these classes, have necessitated the making of larger and more suitable provision for their teaching ; and, to meet present-day requirements, a new building has been erected in George Square. The building, which has been treated after the Classic manner, occupies a site near the centre of the north side of the Square, and presents a handsome frontage of about 100 feet in length.

The Forestry Department is accommodated on the basement and ground floors, space being provided on the former for a Machine Room, Tool Rooms, Laboratory, Apparatus Room, and Museum ; while on the latter there are a Class Room capable of seating 200 students, Museums, a Laboratory, and a Students' Reading Room.

Agriculture and Entomology are provided for on the upper floor of the building, and for these subjects there are a Class Room, similar in size to that for Forestry, Laboratories for Practical and Research Work, a Museum, and a Reading Room, as on the floor below.

In connection with this extension, the University gratefully acknowledges the generous assistance given by the Development Commissioners towards the provision required for Forestry.

DEPARTMENT OF MATHEMATICS, Etc.

The building, No. 16 Chambers Street, formerly in the hands of the Edinburgh Provincial Committee for the Training of Teachers, having been acquired by the University, will now be occupied by the Department of Mathematics, and will also afford additional accommodation for other departments in the Faculty of Arts.

UNIVERSITY UNION.

This building, which occupies the site in Park Place, close to the M'Ewan Hall, is held by trustees for the members. Its institution dates from the year 1884, when the Students' Representative Council started the movement. An influential "General Union Committee" was appointed, who succeeded in raising the sum of £15,000. With this amount the original buildings of the Union were erected. In 1900, however, an extension was found necessary, and this has been carried out by instalments, the last having been completed in 1906. Part of the extension occupies the site of the famous "Ross House," referred to by Sir Walter Scott in *Redgauntlet*. The extension entailed an additional expenditure of £26,000, thus raising the total cost to £41,000. The original buildings, which are Scottish Baronial in style, were designed by Messrs Sydney Mitchell & Wilson, architects, and the extension was planned by them in keeping therewith. The exterior is treated with large mullioned windows, which form a marked feature of the building. See APPENDIX.

UNIVERSITY LIBRARY.

Library Committee.

The Library Committee consists of not more than seven members, not being members of the Senatus, appointed by the University Court, and of such number appointed by the Senatus as shall be double the number appointed by the Court. The Committee is charged with the superintendence of the Library, and of any libraries acquired, or to be acquired, for the use of the University. The members of the Committee are appointed by the University Court and the Senatus respectively at their first meeting in the Winter Session.

Principal Sir WILLIAM TURNER, K.C.B., &c., &c., &c.	} <i>Joint</i> <i>Chairmen.</i>
Hon. JOHN ABERCROMBY, LL.D.	

Professor Hudson Beare ; Professor Baldwin Brown ; Professor Hume Brown ; W. K. Dickson, LL.D. ; Professor Eggeling ; Professor Ewart ; Rev. E. F. Hoernlé, M.B. ; Rev. Professor Kennedy ; Professor Littlejohn ; George Macdonald, LL.D. ; Professor James Mackinnon ; Hew Morrison, LL.D. ; Professor Robinson ; Professor Sir E. A. Schafer ; John A. Trail, LL.D. ; Professor Walker ; James Walker, C.A.

In 1580 Mr Clement Little or Little left his books to "Edinbergh and Kirk of God thair to reman." This collection of about 300 volumes, chiefly theological (see list in *Miscellany of the Maitland Club*, vol. i., 1834), was transferred by the Town Council to the University, and became the nucleus of the University Library.

The celebrated Poet, Drummond of Hawthornden, bequeathed his library to the University in 1627—a valuable gift, both from

the eminence of the donor, and the rare specimens of early literature it embraces (see *Auctarium Bibliothecæ Edinburgensæ*, 1627).

Among noteworthy donors are Principal Adamson ; Dr Robert Johnston, a physician in London ; the Rev. James Nairne of Wemyss, in Fife ; Dr John Stevenson, Professor of Logic and Metaphysics in the University ; and Dr William Thomson, Professor of Anatomy in the University of Oxford. In 1872, Mr J. O. Halliwell, the eminent Shakespearean critic, presented his very valuable collection of works relating to Shakespeare. In 1875 a large collection of Persian and Arabic MSS. was presented by Mr J. B. Baillie of Leys ; in 1879 an extensive collection of MSS. was received from the executors of David Laing, LL.D. ; in 1880 the works on Economic Science collected by Professor Hodgson were presented by Mrs Hodgson ; in 1882 valuable works on Sanskrit Literature were presented by the family of Dr John Muir ; and in 1886 Mr Thomas Stratton bequeathed 110 works bearing on the study of Celtic. In 1889 Sir William Mackinnon, Balinakill, purchased the books of Dr Cameron of Brodick, an eminent Celtic scholar, for £600, for presentation to the University ; and the same year the Library received a valuable collection of MS. Shakespeariana from Dr Halliwell-Phillipps, and a number of books belonging to the late Professor Wilson, from Mrs Wilson. A *Lorimer Collection*, in memory of the late Professor Lorimer, was presented by his son-in-law, Sir David P. Chalmers. In 1895 Professor Blackie left to the Library his collection of modern Greek books ; and important additions were received from the Goodsir bequest, and from Major Sprot, as representative of the late Dr Cleghorn of Stravithie. In 1898 Sir William Fraser left a very handsome legacy to the Library, putting it for the first time since the General Reid Bequest ceased to be separately administered, in possession of funds of its own.

An interesting and valuable addition was made to the Library in 1910 by the United Service Club, London, who consigned the Library of the late Professor Dugald Stewart to the custody of the University. The Library consists of about 4000 volumes in various departments of Literature.

In 1911 the late Sheriff Eneas J. G. Mackay, at one time Professor of Constitutional History in the University, bequeathed the main portion of his library to the Senatus Academicus for the

use of the students of history and English literature. After the Professors of History and English Literature had made a selection of books suitable for their departmental libraries, about 1000 volumes of this collection were added to the General Library.

The Library now contains over 270,000 printed volumes, and about 8000 MSS., many of which are of great value.

The General Library, with the Reading Rooms connected with it, occupies the south side of the quadrangle (Old Buildings).

In 1895 the following Library Regulations were laid down by Ordinance (No. 64):—

I.

II.

III. All books ordered for the Library by the Library Committee shall be sent direct to the Librarian, and all books received by him shall be forthwith catalogued by him in such manner as the Library Committee may direct, and stamped with the Library stamp; and no person shall be allowed to use or borrow any book until it has been entered in the catalogue and stamped.

IV. The Librarian shall, with the approval of the Library Committee, from time to time prepare a list of such books, manuscripts, and other works as cannot, in consequence of any deed of gift or otherwise, be lent out of the Library; and the Library Committee shall from time to time make such regulations as they shall think expedient for allowing access to such works for consultation.

V. Manuscripts, rare books, works of reference, and such other works as the Library Committee shall determine, shall not be lent out of the Library, except under regulations to be made by the Library Committee and approved by the Senatus Academicus and the University Court; and, in addition to such general regulations, the Library Committee may, in each individual case of borrowing such works, impose such special conditions as they may think necessary or expedient: Provided always that every such special permission and all such additional conditions imposed by the Library Committee shall be entered in the Minute-Book of the Committee.

VI. It shall be in the power of the Librarian at any time to withdraw any work from circulation, subject to appeal to the Library Committee.

VII. It shall be in the power of the University Court, after consultation with the Senatus Academicus, and on the report of the Library Committee, to sell or exchange such works as they consider it in the best interests of the Library to dispose of.

VIII. A general inspection of the Library shall take place at such times and during such periods as the University Court, on the report of the Library Committee, shall determine, and all works whatsoever, and by whomsoever borrowed, shall be returned to the Library before the commencement of such periods, under a penalty previously fixed and publicly notified by the University Court.

IX. The Library Committee shall frame regulations to be approved by the University Court, under which the persons hereinafter mentioned may respectively borrow or consult books. Such regulations shall prescribe, *inter alia*, (a) the number of books which the said persons shall be entitled to borrow; (b) the period for which they shall be allowed to retain them; (c) the penalties to be imposed in the event of their failure to return books in due time, or in the event of books being lost or injured.

The persons entitled to borrow books shall be:—

1. Members of the Senatus Academicus and University Lecturers.
2. University Assistants and Examiners.
3. The Librarian and Assistant Librarians.
4. Matriculated Students.
5. Extra-academical Teachers, recognised by the University Court, in the town in which the University is situated.
6. Students enrolled in any Scottish University as attending the lectures of extra-academical teachers in the town in which the University is situated, and who are already entitled by Ordinance to the use of the Library.
7. Persons who have retired or who shall hereafter retire from the office of Principal or Professor.
8. Members of the University Court.
9. Members of the General Council.

Provided that no member of the University Court or of the General Council shall be entitled to obtain from the University Library books required by the Teachers or Students of the University in the prosecution of academic work and research, and that it shall be in the discretion of the Librarian, subject to appeal to the Library Committee, to decide from time to time what books are so required.

In fixing the number of books to be borrowed by the afore-mentioned persons respectively, due regard shall be had to the preferable claims of those engaged in teaching and studying in the University.

X. Members of the General Council shall be required, as a condition of exercising the privilege of borrowing books, to pay such subscription as the University Court shall fix from time to time.

XI. The University Court shall determine what sum, if any, shall be deposited by those entitled to borrow books.

XII. The Library Committee, with the approval of the University Court, may admit to the use of the Library, upon such conditions as to subscription and otherwise as they may require, members of the General Council of other Scottish Universities and Graduates of the University who, by reason of being under the age of twenty-one years, are not qualified to be members of the General Council.

XIII. It shall be in the power of the Library Committee from time to time to grant the use of the Library to such extent and on such conditions as they shall think expedient to persons who may not be members of the University, for purposes of literary research, and the names of those privileged readers shall be reported annually to the University Court.

XIV. So long as any Library subscription or any fine incurred remains unpaid, and so long as any person continues in possession of a book which he is not entitled to retain, the right of the defaulter to the use of the Library shall be suspended and remain in abeyance.

XV. The Library Committee shall, in an annual report to the Senatus Academicus, furnish information as to :

1. The state in which the borrowing registers are kept, and whether there is in use any finding list or other means for facilitating the recall of books.
2. The condition of the various catalogues, whether they are brought up to date or not ; the amount of arrears, if any, of the cataloguing of the titles of current acquisitions ; and what portions of the Library, if any, remain uncatalogued.
3. The amount of money spent in the purchase of books and periodicals respectively, and how the expenditure has been distributed among the several departments of literature and science.

XVI. At such time as shall be fixed by the Senatus Academicus the Librarian shall report to the Senatus in reference to the year then ended :

1. The particulars of every case of admission to special reading privileges.
2. The particulars of every case in which the right to the use of the Library has been suspended or is in abeyance.
3. Every case in which a book belonging to the Library has been replaced at the expense of a borrower.
4. The titles of all books belonging to the Library, known to have been lost or seriously injured, or found at the time of inspection to be amissing.
5. The titles of all books entered as missing in previous reports which have been recovered.
6. The number of accessions to the Library acquired by purchase and received in donation respectively.
7. Any other matter which the Librarian may think it of importance to bring under the notice of the Senatus Academicus, or which he may be directed by the Library Committee to report.

The Senatus Academicus shall forward the report to the University Court.

XVII. Ordinances numbered 68 and 89 of the Commissioners under the Universities (Scotland) Act, 1858, are hereby repealed, provided that the regulations therein contained shall continue to be in force in each University until new regulations have been framed by the Library Committee, and approved by the University Court under the provisions of this Ordinance.

Supplementary Regulations under Ordinance 64, XVII.

I. The Library is open on Mondays, Tuesdays, Wednesdays, Thursdays, and Fridays, from 10 A.M. to 4 P.M. during the three terms; from 10 A.M. to 3 P.M. during Vacation-time, between terms; and on Saturdays from 10 A.M. to 1 P.M. throughout the year; with the following exceptions:—

From 18th Dec. to 4th Jan. (inclusive), and during the month of August, the Library is open on the above-mentioned days (exclusive of Saturdays) from 10 A.M. to 1 P.M. only.

The Library is closed on Saturdays during the Christmas Vacation and the month of August; on Victoria Day, Christmas Day, New Year's Day, Good Friday, the Saturday before Easter, and the Edinburgh Autumn Holiday; and (except for the return of books) during the Annual Inspection (see Regulation IX).

II. Members of the under-mentioned classes of readers may borrow from the Library and have out at one time, respectively the number of books specified below, but no larger number (except as provided in Regulation VII.):

Members of Senatus and University Lecturers—25 vols.

Former Principals and Professors, Members of the University Court and the Library Committee, University Assistants, University Examiners, and the Librarian—10 vols

Members of the General Council of any Scottish University, and extra-academical teachers recognized by the University, on an annual payment of 10s. 6d., or a single payment of £5—5 vols.: on an annual payment of £1, 1s., or a single payment of £10—10 vols.

Assistant-Librarians and Clerks in University Offices (being of age)—5 vols.

III. No person shall be allowed to borrow books in more than one capacity.

IV. Subject to the provision as to the return of books before the Annual Inspection (Regulation X.), every member of the classes mentioned in Regulation II. is entitled to retain a book for one month: but this period may be prolonged until the time of the

Annual Inspection, if the book is not otherwise required under Regulation VI. Provided that the Librarian may recall a book at any time, if required for class purposes.

V. Every Matriculated Student and every Student enrolled as attending an extra-academical teacher in Edinburgh (under Ord. No. 16, Edinburgh, No. 1, Sect. viii., Sub-sect. 5) may borrow and have out at one time three volumes, but not more, and may retain any book for two weeks ; but this period may be prolonged, with the permission of the Librarian, if the book is not otherwise required under Regulation VI. Provided that every such Student, before borrowing a book for the first time, shall exhibit his Matriculation Ticket, and one Class Ticket, and deposit £1 at the Matriculation Office (which deposit is returned when he ceases to use the Library) ; after which his name will be enrolled in the Library Books. Provided also that the Librarian may recall a book at any time, if required for Class purposes.

VI. When a borrower has had a book out for a period (as determined by Regulations IV. and V.) of one month or two weeks, as the case may be, the Librarian may recall such book, if required by another person. If the book so recalled be not returned on or before the day specified on the notice of recall, the borrower shall be liable to a fine of one shilling per volume ; and to a further fine of sixpence per volume for every subsequent day so long as the book is not returned, until the total amount of the fine is equal to the sum for which the book can be replaced. Provided that, in the case of students, only half the above-mentioned fines shall be required, until the total amount is equal to the value of the book.

VII. In exceptional cases, the Library Committee may increase the number of books allowed by Regulations II. and V., or extend the periods fixed by Regulations IV. and V. ; provided that in every such case the additional number or period be specified, and entered in the Committee's minutes, and that the Committee may attach to the permission such conditions as it may deem advisable.

VIII. No book shall be given out except to the borrower in person, or to some one having written authority from him ; nor without the presentation of a Library Ticket, or a written request,

signed by the borrower : and all books borrowed shall be entered immediately, with the date of borrowing, in the ledger or ledgers kept for the purpose.

IX. A General Inspection of the Library shall take place annually during the first week of October, and shall last for one week. During this period the Library shall be closed, except for the return of books.

X. All books, except as provided for by Regulation XI., must be returned to the Library before the commencement of the General Inspection, under a penalty of one shilling for every volume not returned. Notice of each book not so returned shall be sent forthwith by the Librarian to the borrower, requiring its return before the close of the Inspection ; and if the book or books so required be not returned on or before that date, the borrower shall be liable to a fine of sixpence a day for each volume, so long as it is not returned, until the total amount of the fine is equal to the sum for which the book can be replaced. Provided that, in the case of students, only half the above fines shall be required, until the total amount is equal to the value of the book.

XI. In exceptional cases, the Library Committee may, before the commencement of the General Inspection, and on the written application of the borrower, give permission to keep out a book or books over one period of Inspection only, provided that the borrower sign a fresh ticket for them.

XII. All books returned to the Library, if not sent by rail or post, must be delivered, at the Library counter, to one of the Library Staff ; and a receipt for books so returned shall be given if required.

XIII. Unbound numbers of periodicals shall remain for consultation in the Library during the first month after publication ; they may then be borrowed, but shall not be retained longer than fourteen days without the special permission of the Librarian.

XIV. Manuscripts, books, and other works contemplated under Ordinance 64, Section iv., are divided into two classes. Those in class (α) may be consulted with the permission of the Librarian, who shall report such permission to the Library

Committee at their next meeting ; those in class (*b*) may not be consulted without the leave of the Library Committee previously obtained. Works included in either class shall be consulted only in such parts of the Library as the Librarian shall determine

XV. Manuscripts, books, and other works contemplated under Ordinance 64, Section v., are divided into two classes, viz. : (*a*) works of reference, (*b*) manuscripts and other works. Works comprised in class (*a*) may be lent out by the Librarian from the hour of closing to the next hour of opening (except during the Annual Inspection), subject to a penalty of two shillings a day per volume if not returned. Manuscripts and other works comprised in class (*b*) may be lent out by permission of the Library Committee only, subject to such conditions as the Committee may in each case determine. Provided that, in urgent cases, such works (not being manuscripts) may be provisionally lent out by the Librarian and two members of the Library Committee, subject to the approval of the Committee at their next meeting, and to such conditions as the Committee may in each case determine.

XVI. All fines shall be collected by the Librarian, and paid over by him to the Factor of the University. A report of names and amounts shall be made annually by the Librarian to the Library Committee. No fine shall in any case be remitted, except by order of the Library Committee, on sufficient cause shown.

XVII. No books or papers not belonging to the University shall be stored within the Library Building, without the special permission of the Library Committee.

XVIII. The use of matches or open lights, in any part of the Library Building, is strictly prohibited.

XIX. No persons except the Library Staff, not being actual or former members of the Senatus, University Lecturers, members of the University Court or of the Library Committee, or persons having permission under Regulation XIV., are allowed to enter or remain in any part of the Library Building beyond the counter, except in the company of the Librarian or an Assistant-Librarian ; unless by special permission of the Library

Committee, or (in urgent cases) of the Librarian and two members of the Committee, subject to the approval of the Committee at their next meeting.

XX. The Librarian shall report to the Library Committee, as soon as possible, all cases in which a book has been mutilated, disfigured by writing, or otherwise injured while in the possession of readers; and offenders may be required to replace the injured book, or may be fined to an amount not exceeding the value of the book, or deprived of the privilege of using the Library, at the discretion of the Committee.

N.B.—The word “book,” in the foregoing regulations, is to be taken as including manuscripts, pamphlets, bound or unbound periodicals, and other written or printed matter being the property of the University Library.

READING-ROOMS.

I. Old Buildings.

A separate collection of books is set apart for the use of Students.

Those wishing to consult books must insert in one of the slips provided for the purpose their Matriculation Number, Name and Residence, and the title of the Book, and present the slip to the Librarian in attendance.

Each slip will render the person who has signed it responsible for the book named. The counterfoil of the slip should, therefore, be reclaimed from the Librarian when the Book is returned, or whenever the Book applied for is not available.

Every volume must be returned by the borrower before leaving the Reading-Room. Students are forbidden to leave the Books on the table: they are required to hand them to the Librarian, and to get back the counterfoils. To prevent confusion, this should be done a few minutes before the close of each hour by those about to attend classes.

Besides the books in the Reading-Room, each Student may consult in the Reading-Room Two Volumes daily from the General Library: Provided he has handed in slips applying for

them on the previous day, before 2 P.M. To such books the same rules will apply as to those consulted from the Reading-Room.

No conversation or noise is permitted in the Reading-Room.

The Librarian is responsible for the management of the Reading-Room. Any difficulty that may arise must be referred to him, or, if necessary, through him, to the Library Committee.

Students, on first applying for books in the Reading-Room, must exhibit their Matriculation Tickets.

All books taken into the Reading-Room from the General Library shall be examined and returned to their place in the General Library each day. No books shall be issued from the General Library, for use in the Reading-Room, within the last half-hour previous to closing; and all books from the General Library shall be given up in the Reading-Room a quarter of an hour before the close.

The Reading-Room is available for either men or women Students. It is open daily, holidays excepted, during the three terms, from 10 A.M. to 4 P.M., and from 7 to 9 P.M.; during vacation time, between terms, from 10 A.M. to 3 P.M.; Saturdays, 10 A.M. to 3 P.M.; during the month of August, from 10 A.M. to 1 P.M. (exclusive of Saturdays).

A special Reading-Room is set apart for Women Students.

II. New Buildings, Teviot Place.

In the New Buildings is a Students' Reading-Room containing Books of Reference for those attending the Classes in the Faculty of Medicine. The Regulations as to consulting Books are similar to those in the Reading-Room in the Old Buildings. It is open daily, during Sessions, from 9 A.M. to 5, and 8 to 10 P.M.; Saturdays, 9 A.M. to 12. In September, and during the week in which the Spring Holiday occurs (Saturdays excepted), it is open from 10 A.M. to 1 P.M. It is closed during August and the Christmas vacation, and on holidays.

THEOLOGICAL LIBRARY.

This Library, founded in 1698 for Students in Theology, contains above 10,000 volumes. The management is vested in six Curators, chosen by ballot by the "Cives" of the Library from their own number. Students of Divinity of this or other Scottish

University are admitted as Cives on paying : the former, two shillings and sixpence ; the latter, five shillings, per annum. No one who, when a Student of Divinity in this University, failed to enter as a Cives, may afterwards do so until he has paid up the arrears of two shillings and sixpence for each year of his Theological Course in which he failed to pay. No Cives can be elected a Curator unless at least in the second year of his attendance at the Divinity Hall. The election takes place in the second week of December, one-third of the Curators going out annually by rotation. The Curators elect one of their own number to be Treasurer. The Curators and Treasurer report the state of the funds, etc., to the Cives, the Theological Faculty, and the Senatus. The books purchased are selected by the Curators, subject to the approval of the Faculty of Divinity. The Professor of Divinity, who if *ex officio* Honorary Librarian, annually appoints an acting Librarian. Books may not be kept out of the Library longer than two months.

SELLAR AND GOODHART CLASSICAL LIBRARY.

This Library was instituted by private subscription in October 1897, in memory of Professors Sellar and Goodhart. It is used as a Reading-Room and Library of Reference for Students reading for Honours in Classics. It contains nearly 1000 volumes, and is managed by a Committee consisting of the Professors of Greek and Latin, the Assistants to the Professors, and five representatives elected by the Members. Subscription for year, 6s. ; for Autumn and Spring Terms, together, 5s. ; for Summer Term, 3s.

HONOURS PHILOSOPHICAL LIBRARY.

This Library was instituted by private subscription in January 1897. It is used both as a Lending Library and as a Library of Reference for Honours Students ; and is managed by a Committee consisting of the Professors of Logic and Moral Philosophy, the Assistants to the Professors, and two representatives elected by the Honours Classes. Deposit, 10s. ; Graduate subscription, 5s. There are also Class Libraries in connection with the ordinary classes of Logic and Moral Philosophy.

HISTORY LIBRARY.

This Library was founded in 1891 by Professor Kirkpatrick, and was extended by a donation of £100 from the late Professor Tiele of Leyden, Gifford Lecturer in 1896-98, and more recently (1908) by the application of part of a bequest of £1000, made by a sister of the founder. The Library is intended mainly for the use of Honours Students in the Modern, Constitutional, Scottish History, and Political Science Classes. The room (formerly the Associated Societies' Hall) is open as a Reading-Room daily from 9 A.M. to 6 P.M., except Saturdays, when it is closed at 1 P.M. There is no subscription, but a deposit of 5s. is required. The Library is under the management of a Committee, consisting of the Professors of History, the Professor of Ancient (Scottish) History and Paleography, and the Lecturer in History (Convener).

PHYSIOLOGY LIBRARY.

The late William Rutherford, M.D., Professor of Physiology or the Institutes of Medicine in the University from 1874 to 1899, bequeathed to the Senatus Academicus all his books and periodicals relating to Physiology and allied subjects, on condition that they should be deposited in the Physiological department of the University in charge of the Professor of Physiology.

It is proposed to continue the periodicals and to add to the Library by donation or otherwise as opportunity may occur. The books have been placed in a suitable room in the department of Physiology, which is used as a Library of Reference and Reading-Room for those who are engaged in Research work in Physiology: and the books may be consulted at any time on application to the Professor or to one of the assistants in the department who have special charge of the Library.

ASTRONOMY LIBRARY.

A sum of about £300 was subscribed in order to perpetuate the memory of the late Mr Andrew J. Ramsay, for the formation and endowment of a Library in the Royal Observatory for the use of Students attending the class of Astronomy.

HONOURS MODERN LANGUAGES LIBRARY AND READING-ROOM.

The French section of this Library was founded in 1900 by private subscriptions, and has since been kept up mainly by the Library Committee. For the German section a sum of £500 was given by Miss T. S. S. Gibson in 1901. The Reading-Room, furnished partly from private subscriptions, was opened in November 1901. The Library and Reading-Room are under the management of the Lecturers in Modern Languages and the Librarians appointed by them. Subscription for year, 6s. ; for Autumn and Spring Terms, together, 5s. ; for Summer Term, 3s.

NATURAL PHILOSOPHY LIBRARY.

The Natural Philosophy Library, including collections of books which formerly belonged to the late Professor Tait and Mr A. B. Shand, and presented by Mrs Tait and the parents of Mr Shand respectively, is used as a Reference Library by members of the Ordinary Class, and as a Lending and a Reference Library by members of Honours and Senior Laboratory Classes.

GEOLOGY CLASS LIBRARY.

The Geology Class Library includes a large collection of books presented chiefly by Sir Archibald Geikie and Professor James Geikie, by whom the Library was founded. It is used as a Reference and Lending Library by members of advanced courses in the Geological Department.

ENGINEERING LIBRARY.

The Engineering Departmental Library, which includes the Transactions of a large number of the leading Engineering Societies in Great Britain and America, is housed in the new Engineering buildings, and is available as a Reference Library for Engineering students.

MUSIC LIBRARY.

This Library of music and books on music owes its existence to bequests, donations, and especially the Reid Fund. Professor John Thomson, Théophile Bucher, and the Scottish Musical Society may be mentioned as, next to General Reid, the chief benefactors. It is used as a Reference Library and Reading-Room, its management being in the hands of the Professor of Music.

PORTRAITS AND BUSTS IN THE SENATE HALL, LIBRARY, COURT ROOM, ETC.

In order to honour and perpetuate the names of Benefactors who have founded Scholarships, Bursaries, or new Chairs in the University, the University authorities have made arrangements for placing their Busts or Portraits in the Library and University Court Room.

I. Portraits.

IN SENATE HALL.

1. Robert Rollock, first Principal of the University (1585-1599).
2. Robert Leighton, Principal of the University (1653-1662).
3. Andrew Cant, Principal of the University (1675-1685).
4. William Carstairs, D.D., Principal of the University (1703-1716), by Aikman.
5. William Robertson, D.D., Principal of the University (1762-1793), by Raeburn.
6. Adam Ferguson, LL.D., Professor of Moral Philosophy (1764-1785), by Raeburn.
7. Andrew Dalziel, M.A., Prof. of Greek (1772-1805), after Raeburn.
8. John Robison, LL.D., Professor of Natural Philosophy (1774-1805), by Raeburn.
9. John Playfair, M.A., Professor of Mathematics, and afterwards of Natural Philosophy (1789-1819), by Raeburn.
10. Andrew Duncan, M.D., Senior Professor of Institutes of Medicine (1789-1819).
11. George Husband Bard, D.D., Principal (1793-1840), after Geddes.
12. Sir John Leslie, Professor of Natural Philosophy (1819-1833), after Sir David Wilkie.
13. John Donaldson, Professor of Music (1845-1865).
14. John Knox (1505-1572).
15. George Buchanan (1506-1582). Two Portraits.
16. John Napier of Merchiston, inventor of Logarithms (1550-1617).

17. Hugh Blair, D.D., Professor of Rhetoric (1762-1784), by Martin.
18. Robert Graham, M.D., Professor of Botany (1820-1845), by Colvin Smith.
19. J. H. Balfour, M.D., Professor of Botany (1845-1878), by Sir Daniel Macnee.
20. Dr Chas. Murchison, presented by Murchison Memorial Committee.
21. Dr Alexander Monro (*tertius*), by Sir J. Watson Gordon.
22. James Lorimer, M.A., LL.D., Dr Jur., Professor of Public Law (1862-1890).
23. Joseph Black, M.D., Professor of Chemistry and Medicine (1766-1795).
24. Lord Playfair, Professor of Chemistry (1858-1869).
25. Principal Sir William Turner, K.C.B., etc., by Sir James Guthrie, P.R.S.A.

IN COURT ROOM.

1. Sir David Baxter of Kilmaron, Bart., by Sir John Watson Gordon.
2. J. Stewart Hepburn, Esq., of Colquhalzie, by Colvin Smith.
3. Sir John M'Pherson, late Governor-General of India, after Reynolds.
4. George Heriot, after the original in Heriot's Hospital.
5. W. Patrick, Esq., of Roughwood, after Colvin Smith.
6. George Parker Bidder, Esq., by Alfred Dever.
7. The Rt. Hon. John Inglis, Lord Justice-General, by Sir J. W. Gordon.
8. Sir William Fettes, Bart., after Raeburn.
9. Lord Provost Elder, by Raeburn.
10. Daniel Ellis, Esq., by Colvin Smith.
11. Captain Thomas Drummond, by Pickersgill.
12. Sir Roderick Impey Murchison, Bart., by Pickersgill.
13. John Muir, LL.D., D.C.L., by John H. Lorimer.
14. Andrew Vans Dunlop, by John H. Lorimer.
15. Mrs M. S. Tyndall Bruce, by Sir Francis Grant (1888), presented by Mr Andrew H. Tyndall Bruce.
16. General Sir Joseph Straton.
17. John Wyllie, C.B., M.D., Physician General, Madras Army.
18. Miss Eleanor A. Ormerod, LL.D.
19. John Bruce, Professor of Logic and Metaphysics (1774-1786), after Raeburn.
20. Henry G. Watson, R.A.

IN LIBRARY.

1. John Lee, D.D., LL.D., M.D., Principal of the University (1840-1859) by Sir John Watson Gordon.
2. Alexander Brunton, D.D., Prof. of Hebrew and Oriental Languages (1813-1848), by Sir John Watson Gordon.
3. John Wilson, Professor of Moral Philosophy (1820-1853), by Scott Lauder.
4. Nicolson Bain, University Librarian, by William Dyce, R.A., presented by his daughters.
5. James Thomson, Poet (1700-1748).
6. David Hume, by Lady Abercromby.
7. Professor Tiele, Gifford Lecturer (1896-1899).
8. John Locke.
9. General John Reid, Founder of the Chair of Music (1735-1803).

10. Sir William Fraser.
11. David, Earl of Buchan.
12. Right Hon. Lord Lister, Professor of Clinical Surgery (1869-1877),
by John H. Lorimer.

IN PRINCIPAL'S ROOM.

1. Donald Ross, M.A., F.R.S.E.
2. William Prout, M.D.

IN SENATE HALL VESTIBULE.

1. Alexander Campbell Fraser, D.C.L., LL.D., Litt.D.
2. Thomas Brown, M.D., Professor of Moral Philosophy (1810-1820).

IN MIDWIFERY RETIRING ROOM.

Sir James Young Simpson, Bart., M.D., D.C.L., Professor of Midwifery (1840-1870).

IN MUSIC CLASS ROOM.

1. Sir Herbert S. Oakeley, Mus.D., LL.D., by Chas. K. Robertson.
2. General John Reid, Founder of the Chair of Music (1735-1803).

IN PSYCHOLOGY DEPARTMENT.

1. George Combe.
2. Andrew Combe.

II. Busts.

IN LIBRARY.

1. John Lee, D.D., LL.D., M.D., Principal, etc., by Slater.
2. Alexander Monro (*brunus*), M.D., Professor of Anatomy (1720-1754),
by Flaxman.
3. Wm. Cullen, M.D., Prof. of Chemistry (1755-1790), by Gowans.
4. John Playfair, M.A., Professor of Mathematics, and afterwards of
Natural Philosophy (1785-1819), by Chantrey.
5. John Thomson, M.D., Professor of General Pathology (1831-1842),
by Steell.
6. Thos. Chas. Hope, M.D., Professor of Chemistry (1795-1844), by
Steell.
7. Macvey Napier, M.A., Professor of Conveyancing (1825-1847), by
Slater.
8. George Dunbar, M.A., Professor of Greek (1805-1852), by Slater.
9. James Pillans, LL.D., Prof. of Humanity (1820-1863), by Slater.
10. Robert Jameson, Professor of Natural History (1804-1854), by Steell.
11. Edward Forbes, Professor of Natural History (1854-1855), by Steell.
12. Robert Blair, Professor of Practical Astronomy (1786-1834).
13. Dugald Stewart, Professor of Moral Philosophy (1775-1810), by
Joseph.
14. Sir John Leslie, Professor of Natural Philosophy (1819-1833), by
Steell, after Joseph.
15. Andrew Duncan, senior, Professor of Institutes of Medicine (1789-
1819), by Slater.

16. Sir William Hamilton, Bart., Professor of Logic and Metaphysics (1836-1856), by Brodie.
17. Sir Robert Christison, Bart., Professor of Materia Medica, by Brodie.
18. Robert Lee, D.D., Professor of Biblical Criticism (1847-1860), by Brodie.
19. George James Allman, Professor of Natural History (1855-1870), by Hutcheson.
20. Sir James Y. Simpson, Bart., Professor of Midwifery (1840-1870), by Brodie.
21. James Syme, Professor of Clinical Surgery (1833-1869), by Brodie.
22. John Schank More, Professor of Scots Law (1843-1861).
23. Andrew Brown, Professor of Rhetoric (1801-1835).
24. J. H. Bennett, Professor of Institutes of Medicine (1848-1874), by Brodie.
25. Thos. Jackson Crawford, D.D., Professor of Divinity (1859-1876), by Brodie.
26. Thos. Laycock, M.D., Professor of Practice of Medicine (1842-1855), by Clark Stanton.
27. W. B. Hodgson, LL.D., Professor of Political Economy (1871-1880), by Brodie.
28. W. R. Sanders, M.D., Professor of Pathology (1869-1881), by Brodie.
29. Sir Wyville T. C. Thomson, Professor of Natural History (1870-1882), by Hutcheson.
30. H.R.H. the Duke of Edinburgh, by Steell.
31. The Hon. Lord Rutherford, by Theed.
32. A. H. Rhind of Sibster, by Brodie.
33. Sir John Watson Gordon, after Park.
34. John Edward Baxter, Esq., by Hill.
35. Sir William Knighton, M.D., by E. H. Bailey.
36. Sir Alexander Grant, Bart., Principal (1868-1884), by Charles M'Bride, presented by subscribers, chiefly Members of Senatus.
37. William E. Aytoun, Professor of Rhetoric and English Literature (1845-1865), after Park, presented by his sisters.
38. John Wilson, Professor of Agriculture (1854-1885), by S. Williamson, Esher, presented by Mrs Wilson.
39. Alexander Dickson, Professor of Botany (1879-1887), by Charles M'Bride, presented by Subscribers.
40. Sir Cowasjee Jehangir Readymoney, K.C.S.I., by Woolner, presented by Sir George Birdwood, M.D.
41. Rt. Hon. John Inglis, D.C.L., LL.D., Lord Justice-General, Chancellor of the University (1868-1891).
42. John Rae, M.D., LL.D., Arctic Explorer.
43. James Miller, M.D., LL.D., etc., Professor of Surgery in the University (1842-1864).
44. John Goodsir, F.R.S., Professor of Anatomy in the University (1846-1867).
45. David Masson, M.A., LL.D., Professor of Rhetoric and English Literature (1865-1895).
46. Sir Douglas MacLagan, M.D., LL.D., Professor of Medical Jurisprudence (1862-1897).

47. Robert H. Gunning, M.D., LL.D., of Edinburgh and Rio de Janeiro.
48. Sir William Muir, K.C.S.I., D.C.L., etc., Principal of the University (1885-1903), by Charles McBride, presented by Subscribers.
49. James Gregory, M.D., Professor of Practice of Physic (1790-1821).
50. James Moncrieff Arnott of Chapel, Fife.
51. John Wilson, Professor of Moral Philosophy (1820-53).

IN STUDENTS' READING ROOM.

1. Thomas Carlyle, Rector of the University (1865-1868).
2. Lord Brougham, by Christopher Moore.

IN ROOM IN THE DOME.

Robert Cox, Esq., Founder of the Dome, by J. S. Rhind, after Brodie, presented by Robert Cox, Esq., of Gorgie.

IN ANATOMICAL MUSEUM.

1. Alex. Monro (*scutellus*), M.D., Professor of Anatomy (1758-1798).
2. John Goodsir, F.R.S., Professor of Anatomy (1846-1867), by Brodie.

IN PHYSIOLOGY DEPARTMENT.

1. John Hughes Bennett, M.D., Professor of Physiology (1848-1874).
2. William Rutherford, M.D., F.R.S., F.R.S.E., Professor of Physiology in the University (1874-1899).

IN ENGINEERING DEPARTMENT.

Robert Stevenson, Engineer.

Thomas Chalmer, D.D., Professor of Divinity (1828-1843), by Sir John Steell, R.S.A. (subject to liferent of Miss Chalmers).

TORRIE FINE ART COLLECTION.

Sir James Erskine of Torrie, by a Will, dated April 1834, bequeathed to the University his Pictures, Bronzes, and Marbles, "for the purpose of laying a foundation for a GALLERY for the encouragement of the Fine Arts." The collection is at present temporarily deposited in the National Gallery, until funds can be obtained for its suitable display in the University Buildings, and for carrying more fully into effect the intentions of the testator.

The Pictures, forty-five in number, include choice specimens of the works of different Masters, especially in the Flemish and Dutch Schools. The Marbles, seventeen in number, and twenty-three Bronzes, have been chosen with a correct appreciation of

the merits of this department, and the whole collection reflects credit on the taste and public spirit of Sir James Erskine.

The following is a Catalogue of the Collection :—

I. Pictures in National Gallery.

The numbers of the Pictures in the National Gallery Catalogue are given within parentheses.

1. A Squall, by Ludolf Bakhuizen, *b.* 1631, *d.* 1708. Canvas, 23 by 17 in., oblong. (105.)
2. A Young Noble and Lady, by Pietro Della Vecchia. Canvas, 29 by 22 in., upright. (96.)
3. Rocky Landscape, with Figures,—Sunset, by Andries Both (?), *b.* 1612. Canvas, 23 by 18 in., oblong. (1.)
4. Landscape and Figures, by Jan Both, *b.* 1610. Canvas, 42 by 41 in., upright. (122.)
5. Landscape, with Mounted Figures, by Jan Both. Panel, 22 by 16 in., oblong. (40.)
6. Venus and Adonis, by Paolo Veronese, *b.* 1528, *d.* 1588. Canvas, 32 by 24 in., upright. (97.)
7. Cattle Piece, by Nicolaes Berchem, *b.* 1620, *d.* 1683. Panel, 12½ by 9¾ in., upright. (13.)
8. Herd with Cattle, by Nicolaes Berchem. Panel, 12 by 9¼ in., oblong. (17.)
9. Skirmish of Cavalry, by Jacques Courtois (Borgognone), *b.* 1621, *d.* 1676. Canvas, 22 by 13 in., oblong. (53.)
10. Skirmish of Cavalry, companion picture to No. 9, by Jacques Courtois (Borgognone). Canvas, 22 by 13 in., oblong. (57.)
11. Party at Cards, by Johan le Ducq, *b.* 1630, *d.* 1676. Panel, 25 by 17 in., upright. (21.)
12. Land Storm, by Gaspard Dughet (Poussin), *b.* 1613, *d.* 1675. Canvas, 32 by 22 in., oblong. (49.)
13. Architectural Piece, with Figures, by Giovanni Ghisolfi, *b.* 1623, *d.* 1683. Canvas, 46 by 38 in., upright. (133.)
14. Classical Ruins, with Figures, companion picture to No. 13, by Giovanni Ghisolfi. Canvas, 46 by 38 in., upright. (134.)
15. Interior of Cottage, with Peasant's Family, by Jean Baptiste Greuze, *b.* 1725, *d.* 1805. Canvas, 32 by 25 in., oblong. (48.)
16. Forest Scene, with Deer, by Jan Van Der Heijden, *b.* 1637, *d.* 1712. Panel, 11¼ by 8¾ in., oblong. (24.)
17. Forest Landscape, by Meindert Hobbema, *b.* 1638, *d.* 1709. Panel, 36 by 21 in., oblong. (4.)
18. A Woodland Scene, with river-bank in the foreground, by Meindert Hobbema. Panel, 26 by 18 in., oblong. (32.)
19. Horsemen halting at an Italian Winchouse, by Karel Du Jardin, *b.* 1635 (?), *d.* 1678. Canvas, 34 by 32 in., oblong. (41.)
20. Farrier's Shop, by Karel Du Jardin. Canvas, 17 by 15 in., oblong. (26.)
21. Waggon halting at the door of an Alehouse, by Johannes Lingelbach, *b.* 1625, *d.* 1687. Canvas, 18 by 15 in., upright. (29.)

22. Progress of Louis XIV., in a State carriage, with cortège, by Adam Frans Van Der Meulen, *b.* 1634, *d.* 1690. Canvas, 33 by 24 in., oblong. (18.)
23. Interior of a Cathedral (the clear figures by Van Thulden), by Peeter Neeffs, *b.* 1577, *d.* 1660. Panel, 15½ by 11¼ in., oblong. (20.)
24. Dutch Landscape; sunset effect, with bathers in a river, by H. Ten Oever. Canvas, 34 by 26 in., oblong. (5.)
25. Battle Piece, by Giulio Romano, *b.* 1492, *d.* 1546. Canvas, 25 by 18 in., upright. (74.)
26. A Dead Christ, by Giulio Cesare Procaccini, *b.* 1548, *d.* 1626. Canvas, 17 by 11 in., oblong. (103.)
27. Recesses of a Forest, with effect of morning light descending through the interstices of the trees, by Adam Pynacker, *b.* 1621, *d.* 1673. Canvas, 37 by 20 in., upright. (128.)
28. Woodland Scene, by Rembrandt? Canvas, 28 by 21 in., oblong. (132.)
29. Sketch for a Mountain Landscape, by Rembrandt, *b.* 1606, *d.* 1669. Panel, 16 by 12 in., oblong. (38.)
30. An Ecce Homo, by Guido Reni, *b.* 1575, *d.* 1642. Canvas, 22 by 17 in., upright. (71.)
31. Rocky Landscape and figures, by Salvator Rosa, *b.* 1615, *d.* 1673. Canvas, 38 by 20 in., oblong. (109.)
32. Wood Scene on the Banks of a River, by Jacob van Ruysdael, *b.* 1628, *d.* 1682. Canvas, 29 by 24 in., oblong. (27.)
33. Landscape, by Jacob van Ruysdael. Canvas, 76 by 53 in., oblong. (6.)
34. Wolf Hunt, by Franz Snyders, *b.* 1579, *d.* 1657. Canvas, 97 by 70 in., oblong. (114.)
35. Boar Hunt, by Franz Snyders. Canvas, 100 by 72 in., oblong. (130.)
36. Physician and Patient, by Jan Steen, *b.* 1626, *d.* 1679. Canvas, 28 by 22 in., upright. (43.)
37. *Pastorello*, or imitation of a Venetian picture of the Bassano School, by David Teniers, *b.* 1610, *d.* 1690. Canvas, 18 by 12 in., oblong. (16.)
38. Peasants playing at Skittles, by David Teniers. Panel, 22 by 14 in., oblong. (28.)
39. Sea Piece, unknown. Canvas, 22 by 16 in., oblong. (44.)
40. Virgin and Child, and St Catherine, Venetian School. Panel, 19 by 16 in., upright. (81.)
41. Landscape and Figures, by Van der Leeuw, *b.* 1639, *d.* 1672. Canvas, 42 by 32 in., oblong. (14.)
42. Cattle and Herdsmen, by Adrian van de Velde. Canvas, 15 by 12 in., oblong. (11.)
43. Fishing Boats in a Calm, by Willem van de Velde, *b.* 1633, *d.* 1707. Canvas, 22½ by 17 in., oblong. (33.)
44. Martyrdom of St Andrew, by Domenichino, *b.* 1581, *d.* 1641. Canvas, 17 by 13 in., oblong. (79.)
45. Figure of Bather, by Domenichino. Canvas, 21 by 17 in., upright. (72.)

II. Marbles in National Gallery.

1. Group of Arria and Pætus, in Italian marble, 38 in. high.
2. Copy of the Crouching Venus, in Carrara marble, 29 in. high.
3. Copy of Venus leaving the Bath, 28 in. high.
4. Antique Torso of a Nude Venus, 34 in. high.
5. Antique, small Statue of a Youth, 20 in. high.
6. Small antique figure of a Draped Venus, about 15 in. high.
7. Antique Draped Female, without head or arms, 31½ in. high.
8. Antique small Draped Figure, 21 in. high.
9. Column of *Giallo Antico*, 46 in. high.
- 10, 11. Two fine Vases of *Rosso Antico* porphyry, with handles, 19¼ in. high, and 12 in. diameter at mouth.
12. Small Vase of *Rosso Antico* marble, 16½ in. high.
13. Vase of *Verde Antico* porphyry, 23¾ in. high.
- 14, 15. Two small Vases of the same porphyry, 13 in. high.
- 16, 17. Two Vases of grey granite, 15¾ in. high, both placed on plinths of *Giallo Antico*.

III. Bronzes in National Gallery.

1. Bronze Head of Empress Plotina, Consort of Trajan, heroic size, 42 in. high.
2. Anatomical Figure of a Horse, 35 in. high from the plinth.
3. Small group of Dirce, 21 in. high.
4. Miniature copy of the group of *Beauty chaining Strength*, 12 in. high.
5. Miniature copy of the Venus de' Medici, 24 in. high.
6. Ditto of the Fighting Gladiator, 29 in. high.
7. Ditto of the Arrotino, 14½ in. high.
8. Miniature copy of the group of the Athletæ, 16 in. high.
9. Ditto of the Rape of the Sabines, after Giovanni Bologna.
10. Ditto of his Mercury, 20½ in. high.
11. Ditto of Michelagnolo's NIGHT.
12. Ditto of Michelagnolo's AURORA, 23 in. long and 11 in. high.
13. Ditto of Venus, 15 in. high.
14. Ditto of Samson slaying the Philistines, after Adrien Van Vries, 30 in. high.
15. Miniature of a Youth with one arm on his head and the other behind his back, 8 in. high.
16. Ditto of the Florentine Boar, 8 in. high, including the plinth.
17. Ditto of Jupiter on his eagle, 4½ in. high.
18. Cupid resting on one foot as if about to fly, 13 in. high.
19. Antique bronze figure of a bull, 10 in. high.
20. Antique bronze of a he-goat, 8 in. long.
21. Chased Vase, from the *Villa Borghese*, the plinth inscribed "G. Zoffolif," 12 in. high, 6¾ in. wide.
- 22, 23. Two Chased Vases from the *Villa Borghese*, with similar inscriptions, 14 in. high, 11 in. wide.

MUSEUMS.

A Museum Committee, consisting of three members, not being members of the Senatus, appointed by the University Court, and of six appointed by the Senatus, is charged with the superintendence of all Museums belonging to the University, and of any collections, furniture, or apparatus, or objects acquired for the use of the University or of any class therein. The members are appointed by the University Court and Senatus, respectively, at their first meeting in the Winter Session of each year.

Members of Committee appointed by the University Court.

Sir James Alexander Russell, M.A., M.B., B.Sc., LL.D.
R. Mackenzie Johnston, M.D.
G. A. Berry, M.D.

Appointed by the Senatus Academicus.

Professors Sir Thomas R. Fraser, Sir Edward A. Schäfer, Robinson,
Lorrain Smith, Barkla.

Of the following Museums, several belong partly or wholly to the Professors of the respective subjects:—

Natural Philosophy Museum.—A large collection of physical apparatus, including many pieces of great historical interest.

Fine Art Museum.—The Department contains a collection of casts from the antique, photographs, diagrams, etc., used for the illustration of lectures, and accessible for private study.

Geological Museum.—This Museum, formed for Class purposes, shows the characters of minerals and rocks, and the typical fossils of the different geological systems.

The Museum of Natural History.—The old Museum, established in 1812 in the University, contained Zoological, Geological, and Mineralogical Collections, formed chiefly by Professor Jameson, for fifty years Professor of Natural History, and Regius Keeper of the Museum. In 1854 it was transferred by the Town Council, then the Patrons of the University, to Government, and removed to the Natural History Department of the Royal Scottish Museum, where it is still accessible to Students of the University.

There is also a **Zoological Museum** in the Natural History Department of the University, for the use of Students. Graduates

Students, and others interested are invited to aid the Department by presenting specimens.

Royal Botanic Garden.—The Royal Botanic Garden, Inverleith Row, is connected with the University, in so far as the Professor of Botany delivers his Lectures in the Hall in the Garden. The Garden is open daily. Specimens of plants for study are supplied to Students so far as practicable.

The Botanical Museum in the Garden is open to Students daily, under the direction of the Professor and Mr H. F. Tagg, Assistant in charge.

The University Herbarium, which is placed in the Garden, may be consulted between 10 and 1, and 2 and 5, under the direction of the Professor and Mr J. F. Jeffrey, the Assistant in charge.

Chemistry Museum.—Professor Playfair, afterwards Lord Playfair, on his resignation of the Chair of Chemistry, presented to the University the chemical substances he had used in illustrating his lectures. The collection has been increased by gifts from chemical manufacturers and others, and by substances prepared in the University Laboratory.

Forestry Museum.—The collections include sections and planks of the different conifers and hardwoods grown in the British Isles, as well as numerous examples of malformation and disease. There are also examples of transplants and various methods of planting; a complete set of axes, saws, planting instruments, and other tools used in forestry operations; instruments used in the measurement of height and diameter; and sets of apparatus and tools required in the Practical Courses.

Economic Entomology Museum.—This is open to students attending the classes in Entomology, and to others by arrangement.

Anatomical Museum.—Founded in 1800 by Dr Monroe, *secundus*, who presented his own Anatomical Collection, and that of his father, to the University, "to be used by his successors for the purpose of demonstrating and explaining to the Students the structure, physiology, and diseases of the human body." In 1859, Sir David Monroe, M.D., presented a collection of anatomical preparations, formed by his father, Dr Alexander Monroe, *tertius*. Numerous additions were also made by Professor Goodsir,

especially in the department of Comparative Anatomy, on whose death the Senatus purchased his Private Museum, and added it to the Collection. The Museum was transferred in 1884-85 to the New University Buildings, where it is arranged in a large and handsome Hall with two galleries. This Hall was designed by Sir R. Rowand Anderson in consultation with Sir William Turner, who, during his tenure of office as Professor of Anatomy in the University, made many additions to the Collection and also rearranged it in its transfer to the New Buildings. The Museum now contains several thousand specimens in illustration of Human Anatomy, both normal and pathological, and of Comparative Anatomy. It is specially distinguished by its specimens illustrative of the anatomy of the Cetacea and by its very large collection of Human Crania from all parts of the world. Its extension in both of these directions was effected by Sir William Turner.

The Conservator, the Professor of Anatomy, will gratefully receive contributions of rare and interesting specimens from Graduates and former Students. He is especially desirous of making the collection thoroughly representative of the osteology of the different Races of Men.

The Museum is open at certain hours to all matriculated students. The pathological collection occupies the upper gallery. The spirit-preparations in illustration of normal Human and Comparative Anatomy are arranged in the lower gallery. The osteological collection is disposed in the cases on the floor, and suspended in the centre of the Hall. In 1887 the Henderson Trustees committed to the custody of the Conservator their valuable collection of crania and casts. *Assistant Conservator*, Ernest J. Henderson.

Physiology Museum.—A large collection of Physiological Instruments, Models, Microscopes, Microscopical and Chemical Appliances, Diagrams, Preparations, etc.

Materia Medica Museum.—The Materia Medica Museum contains one of the most complete collections of medicinal and food substances in this country. The collection was founded by Professor Andrew Duncan. His successor, Sir Robert Christison, during his long incumbency of the Professorship, added a large number of valuable specimens, which were, for the most part, mounted by himself, with singular neatness. The present

occupant of the Chair has made further extensive additions. The Museum has been greatly enriched by interesting donations from former members of the class in all parts of the world. Besides the general collection, there is a Students' Reading Museum, containing specimens of the medicinal substances usually employed in this country, which has been formed and arranged by the present Professor of *Materia Medica*.

Forensic Medicine Museum.—This Museum contains a large collection of Pathological specimens, photographs, casts, weapons, etc., illustrative of the various branches of Medical Jurisprudence and Toxicology.

Practice of Physic Museum.—This contains Pathological Specimens, drawings, models, diagrams, and charts, the property of the Professor.

Surgical Museum.—This collection was founded by the late Professor Spence, and was largely extended by his successor Professor Chiene. Many additions have recently been made, both of Pathological preparations and of photographs and X-ray prints illustrating Clinical and Surgical Pathology.

Obstetrical Museum.—Besides a few preparations left by Professor Hamilton, this contains instruments, preparations, models, and diagrams, collected by Sir James Y. Simpson, and added to by Sir Alexander R. Simpson, to whom they belong, in addition to the preparations, specimens, instruments, and class illustrations added by the present Professor.

Museum of Music and Musical Instruments.—A very interesting and valuable collection of acoustic and musical instruments.

LABORATORIES, Etc.

The following means are afforded for Practical Instruction :—

The Physical Laboratory, established with the view of affording Students a practical knowledge of the construction and use of physical apparatus and the mode of conducting experimental inquiries, is open daily during the Autumn, Spring, and Summer Terms from 10 to 4 (for Advanced Students from 9 to 4.30), under the superintendence of the Professor. It is open (for Research

Students only) on 1st October ; and will continue open every lawful day during the year, holidays and the long vacation excepted.

FEES.—Course of 50 hours, £1, 1s. ; Course of 60 to 100 hours, £2, 2s. ; Single Term, two hours a day, £2, 2s. ; Two Terms, two hours a day, £3, 3s. ; Whole Academic Year, two hours a day, £4, 4s. ; Whole Academic Year, for the hours during which the Laboratory is open daily, £6, 6s.

The Mathematical Laboratory, affording Students a training in the science and art of calculation, and the performance of all types of numerical and graphical computation by the aid of mathematical tables and calculating machines, as required in the practical applications of Mathematics. The Laboratory is under the direction of Professor Whittaker and the Lecturers of the Mathematical Department.

The Royal Observatory is open to Students of Astronomy, on Friday evenings from 5 P.M.

The Psychological Laboratory is open during Terms, for research and for practical instruction, under the direction of the Lecturer.

FEE.—Single Term, two hours daily (or an equivalent period within the same term), £1, 1s.

The Chemical Laboratories have accommodation for 100 students working at one time. They contain the necessary equipment for a complete course of instruction in the various branches of Chemical Work and for Research. The instruction given includes the Qualitative and Quantitative Analysis of Inorganic and Organic Substances, Chemical Preparations, Assaying, Gas Analysis, and Physico-Chemical Measurements. The training is suited not only for students studying for Science and Arts Degrees, or for the Examinations of the Institute of Chemistry, but also for persons desiring to qualify themselves as Analysts, Technical Chemists, etc. The First Year's Course in Science consists of four hours' instruction weekly, during the three terms : Fee, £4, 4s.

The Intermediate and Advanced Laboratories are open from 9.30 to 4.30 daily, during the three terms, and are under the charge of Professor Walker, assisted by Leonard Dobbin, Ph.D. ; A. C. Cumming, D.Sc. ; W. W. Taylor, M.A., D.Sc. ; J. E. Mackenzie, Ph.D., D.Sc. ; J. P. Longstaff, D.Sc. ; S. A. Kay, D.Sc. ; H. G. Rule, B.Sc., Ph.D. ; and Junior Demonstrators.

A member of the staff is in attendance at the Laboratories daily from 10 A.M. till noon during the week preceding the opening of the Autumn Term (but not on the Saturday), and students who intend beginning their Laboratory work are requested to call and consult him regarding the arrangements.

FEES.—Whole day, £6, 6s. per term ; £16, 16s. per annum. Half-day, £3, 3s. per term ; £8, 8s. per annum. For First Year's Course, see above.

Zoology Laboratories, open on 1st October and 20th April for the Winter and Summer Sessions respectively, for study of the structure and development of Invertebrate and Vertebrate forms ; and are open daily, under the superintendence of the Professor, assisted by J. Beard, D.Sc. ; J. H. Ashworth, D.Sc. ; and A. D. Darbishire, M.A.

FEES.—Autumn and Spring Terms together, £10, 10s. ; Summer Term, £6, 6s.

The Laboratory in the Royal Botanic Garden is open daily, for practical study of plants and botanical research, under the direction of the Professor and the Assistant in charge.

Geological and Petrological Laboratories are open from 9.30 to 4.30 daily, during the three terms ; and are under the charge of the Professor, assisted by Robert Campbell, M.A., D.Sc., and T. M. Finlay, M.A., B.Sc.

Dissecting Rooms, open daily under the superintendence of the Professor, assisted by E. B. Jamieson, M.D., Ch.B. ; T. B. Johnston, M.B., Ch.B. ; Lewis Beesly, F.R.C.S.E. ; A. E. Chisholm, M.B., Ch.B. ; J. K. M. Dickie, M.B., Ch.B. ; F. E. Jardine, M.B., Ch.B. ; Stuart Bolton, M.B., Ch.B. ; Aubrey Radford, M.B., Ch.B. ; F. W. Mackenzie, M.B., Ch.B. ; W. Q. Wood, M.B., Ch.B. ; and H. A. Cookson, M.B., Ch.B. ; open 1st October and 20th April ; and continue open till the end of the Winter and Summer Sessions.

Anatomical and Anthropological Research Laboratory, open daily throughout the year. No fees are charged to those engaged in research, but they are expected to defray the cost of their investigations.

Physiology Laboratory, for the prosecution of Research in Physiology, and for the study of Practical Physiology, is open daily for workers, all the year round, under the superintendence of the

Professor, assisted by W. Cramer, Ph.D., D.Sc. ; Harold Pringle, M.D. ; John Tait, M.D., D.Sc. ; A. Ninian Bruce, D.Sc., M.D. ; and R. J. M. Horne, M.A., B.Sc. No fees are charged to those engaged in research, but they are expected to defray the cost of their investigations.

Fees.—Per month : *Whole day*, £2, 2s. ; *Half day*, £1, 1s.

Engineering Drawing Class Room, daily, from 10 to 4, for instruction in drawing and drawing-office routine.

The Engineering Laboratories, open daily on and after 1st October and 20th April for the Winter and Summer Sessions respectively, from 10 to 5, for practical instruction in the processes employed by the Engineer in the Experimental Determination of the Physical and Economical Constants of Materials, Machines, and Prime Movers.

Practical Instruction in Office and Field-work, in connection with the Summer Course on Surveying, Levelling, etc., from 10 to 4.

The John Usher Institute of Public Health.—The Students Laboratories are open daily from 9.30 to 4.30 during the Winter and Summer Sessions under the direction of the Professor, assisted by J. Buchanan Young, M.B., D.Sc. (P.H.). The Laboratories are fully equipped for a complete course of instruction in bacteriological, chemical, and meteorological work, in relation to the prevention of disease. The training is suited not only for students preparing for the degree of B.Sc. in Public Health, but also for those preparing for Diplomas in Public Health granted by the different licensing boards.

There are also several research rooms, for research in bacteriology and bacteriological chemistry, under the direction of the Professor and his Assistants.

Fees.—*Whole day*.—Winter Session, £10, 10s. ; or Oct.-Dec., or Jan.-March, or Summer Session, £5, 5s. *Half day*—Winter Session, £6, 6s. ; Oct.-Dec., or Jan.-March, or Summer Session, £3, 3s. Preference will be given to Students in the above order.

Materia Medica Laboratories, for the study of Practical Materia Medica and Practical Pharmacy, and for Pharmacological and Pharmaceutical research, open daily during the Winter and Summer Sessions, under the superintendence of the Professor, assisted by William C. Sillar, M.D., B.Sc., and Gomer Williams, M.B., Ch.B. No fees are charged to those engaged in research, but they are required to defray the expenses of materials.

Pathological Laboratory.—This includes a recently equipped Chemical Laboratory, and is open daily for Pathological Research, under the superintendence of the Professor of Pathology, to whom application should be made. No fees are charged to those engaged in research.

Bacteriological Laboratory.—By arrangement with the Royal College of Physicians, workers pursuing research under the superintendence of the Professor of Bacteriology will be accommodated in the Research Laboratory of the College at 2 Forrest Road. Applications are to be made to the Professor. No fees are charged to those engaged in research.

Forensic Medicine Laboratory, under the superintendence of the Professor.

Practice of Physic Laboratory, for the study of Medicine, and for research in connection with the Practice of Physic, open daily, under the superintendence of the Professor, assisted by James G. Cattnach, M.B., C.M.

Surgical Laboratory — (*a*) General Surgical Pathology, (*b*) Bacteriology—is utilised for teaching Systematic Surgery, and every facility is afforded for investigation, under the superintendence of the Professor, assisted by James M. Graham, M.B., Ch.B., A. Pirie Watson, M.A., M.B., Ch.M., and R. C. Alexander, M.A., M.B., Ch.B.

Obstetrical and Gynecological Laboratory, for research and study of practical work, under the superintendence of the Professor, and Dr A. H. F. Barbour.

Scientific Animal Breeding Station.—The University Court has recently acquired on lease the farm of Fairslacks, in the vicinity of West Linton, in order to provide facilities for animal breeding, having a practical bearing on the agricultural interests of the country. Manager, ROBERT M'CORMACK.

Millport Marine Station (*Superintendent*, RICHARD ELMHURST).—This marine station, in which a table has been rented by the University, is open from April to October. Applications for the use of the table should be sent to the Dean of the Faculty of Science. Each applicant should indicate for what period he desires to occupy the table, and the nature of the work he proposes to undertake.

PRELIMINARY EXAMINATIONS.

ARTS AND SCIENCE PRELIMINARY, ETC.

The following are the Regulations contained in the Arts Ordinance (No. 11, of the University Court of the University of Edinburgh), and in the Ordinances regulating graduation in other Faculties; and also (in smaller type) the Supplementary Regulations of the Joint Board of Examiners:—

1. FOR THE DEGREE OF M.A.

III. (1) Before entering on the Curriculum (subject to the proviso contained in Section IV., Sub-section 1) each student shall pass a Preliminary Examination in the following subjects:—

1. English.
2. Latin or Greek. [For Standard see (2) below.]
3. Mathematics. [For Standard see (2) below.]
4. One of the following:—Latin or Greek (if not already taken), French, German, Italian, or such other Language as the Senatus may approve,¹ Dynamics.

(2) The examination must be passed in the matters and on the standards hereinafter defined; but there shall be a higher and a lower standard in Latin and in Greek, and a higher, an intermediate, and a lower standard in Mathematics.

Candidates must pass on the higher standard in at least one of these three subjects, and may pass on the lower standard in either or both of the remaining two; subject always to the conditions relative to attendance contained in Section IV. hereof.

A candidate shall be obliged to pass in all the required subjects at one or not more than two examinations, provided that he may offer himself for re-examination as often as may be necessary to satisfy this condition.

¹ Among languages which have been accepted under this section are: Gaelic, Spanish, Chinese, Dutch, Turkish, Polish, and various Indian languages, on the same standard as French and German.

See Regulation as to early entry for Special Languages, page 102.

2. FOR THE DEGREE OF B.Sc. IN PURE SCIENCE.

Every candidate for the degree of Bachelor of Science must pass the Preliminary Examination prescribed for Degrees in Arts (see p. 85); and the conditions with respect thereto imposed by the said Ordinance shall be applicable in all respects to this Ordinance, except as follows:—(1) French or German may be substituted for Latin or Greek; (2) Mathematics shall, except as stated below, be passed on the higher standard; (3) a degree in Arts (not being a degree *honoris causâ tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University, specially recognised for the purpose by the University Court after consultation with the Senatus, shall exempt from the Preliminary Examination.

Candidates may take **Mathematics** on the intermediate standard (see p. 93) instead of on the higher standard, provided they also take an additional modern language, on the standard of the Preliminary Examination for degrees in Medicine, as a fifth subject.

No candidate will be entitled to profess Mathematics, Natural Philosophy, or Astronomy at the Final Science Examination, unless he has passed the Preliminary Examination in Mathematics on the higher standard.

A student who, having passed the Arts Preliminary Examination, has thereafter obtained a certificate of attendance on a qualifying class of Mathematics, will not be required to pass any further examination in Mathematics as a condition of entering on the course of study for graduation in Science.

Attendance on any Science Class will not, except as hereafter stated, qualify for Graduation in Pure Science unless the whole Preliminary Examination has been previously passed.

(Section X. of Science Ordinance).—If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, *on special cause shewn*, permit him to count such class for examination, on condition of his passing the full Preliminary Examination within such time as the Senatus may appoint. Application for this privilege should be made to the Dean of the Faculty of Science *at the opening of the Session*.

3. FOR THE DEGREE OF B.Sc. IN ENGINEERING.

Every candidate for the degree of B.Sc. in Engineering must pass the Preliminary Examination prescribed for degrees in Pure Science, and the conditions with respect thereto imposed by the Regulations for degrees in Pure Science are applicable in all respects to degrees in Engineering, except as follows—viz., Mathematics must be passed on the Higher Standard, and the Preliminary Examination must be passed before the candidate presents himself for any part of the First Science Examination, but not necessarily before he enters on his curriculum.

4. FOR THE DEGREE OF B.Sc. IN AGRICULTURE.

Every candidate for the degree of B.Sc. in Agriculture must pass the Preliminary Examination prescribed for degrees in Pure Science; and the conditions imposed with respect thereto by the said Regulations are applicable in all respects to the degree in Agriculture, except as follows:—The Preliminary Examination must be passed before the candidate presents himself for any part of the First Science Examination, but not necessarily before he enters on his curriculum.

5. FOR THE DEGREE OF B.Sc. IN FORESTRY.

Before a candidate can be admitted to the first examination for the degree of Bachelor of Science in Forestry, he must have passed a Preliminary Examination, on a standard to be determined from time to time by the Joint Board of Examiners of the Scottish Universities, in the following subjects; provided always that, in the case of a candidate whose native language is not English, an examination in the native language of the candidate may be substituted for one in either French or German, and an examination in any other classical language for one in Latin:—(1) English; (2) Mathematics; (3) German or French; (4) German or French (if not already taken) or Latin—all as for Pure Science.

6. FOR THE DEGREE OF B.Sc. IN VETERINARY SCIENCE.

A candidate for the degree of Bachelor of Science in Veterinary Science must have passed the Preliminary Examination prescribed for degrees in Pure Science.

7. FOR THE DEGREE OF B.L.

Subject to the provision contained in Section II. hereof, each student before entering on his curriculum of study shall have passed—Latin being one of the subjects—

(a) The Preliminary Examination in the Faculty of Arts ; and the conditions with respect thereto shall be applicable in all respects except as follows, viz., Latin shall be passed on the higher standard ; or

(b) Such other Examination as the Joint Board of Examiners may from time to time accept as equivalent to the said Preliminary Examination in Arts in which Latin has been passed on the higher standard, provided always that the Joint Board of Examiners shall have power to require, as a condition of such acceptance, that the said Examination shall be passed on a higher standard than the ordinary pass standard thereof.

If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class as qualifying for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint ; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

A degree in Arts or Science or Economics (not being a degree *honoris causâ tantum*) in any of the Universities in the United Kingdom, or of any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the Senatus, shall exempt from the Preliminary Examination.

8. FOR THE DEGREE OF Mus.B.

II. (1) Every Candidate for the degree of Mus.B. must pass a Preliminary Examination in :—

(a) English, including Grammar and Composition, and the Outlines of Geography and British History. The standard shall not be lower than that adopted for a Pass on the Higher Grade Standard at the Leaving Certificate Examination of the Scotch Education Department.

(b) Elementary Mathematics, or Elementary Physics, or Logic.

Mathematics comprises— (1) Arithmetic, including Vulgar and Decimal Fractions, Proportion, Percentage, Square Root, Simple Interest; (2) Algebra, including Fractions, Factors, Square Root, Equations of the First Degree, Simultaneous Equations of the First Degree, Easy Quadratic Equations, Problems leading to the above Equations; (3) Geometry—Euclid, Books I., II., and III. (or their equivalents), with easy deductions. Demonstrations other than Euclid's will be accepted if they assume no propositions which in Euclid's order are subsequent to the proposition under consideration. The standard shall not be lower than that adopted for a Pass on the Lower Grade Standard at the Leaving Certificate Examination of the Scotch Education Department.

Elementary Physics comprises the properties of Matter and the elementary phenomena of Sound, Light, Heat, and Electricity, as in Balfour Stewart's *Elementary Physics*.

Logic comprises the elements of Deductive and Inductive Logic, as in Fowler or Jevons.

(c) And any two of Latin, Greek, French, German, and Italian, but one at least must be a modern language.

Latin and Greek comprise grammatical questions, translation into English from Latin or Greek authors not previously prescribed, and translation of plain passages or easy sentences from English into Latin or Greek. The standard shall not be lower than that adopted for a Pass on the Lower Grade Standard at the Leaving Certificate Examination of the Scotch Education Department.

French, German, and Latin comprise grammatical, literary, and easy philological questions, translation into English from French, German, or Italian authors not previously prescribed, and translation from English into French, German, or Italian. The standard shall not be lower than that adopted for a Pass on the Higher Grade Standard at the Leaving Certificate Examination of the Scotch Education Department.

2. The extent and standard of the Preliminary Examination is determined by the Senatus.

3. A degree in Arts, not being a degree *honoris causâ tantum*, in any University of the United Kingdom, or in any Colonial or Foreign University, specially recognised for the purpose by the University Court, after consultation with the Senatus, exempts

from the Preliminary Examination ; and the Senatus has power to determine what examinations, other than those for the degree mentioned, will be accepted in whole or in part in place of the Preliminary Examination.

For the requirements of THE CARNEGIE TRUST with respect to Preliminary Education, see APPENDIX.

Privileges of Foreign Students.

In the case of a student whose native language is other than English, the standard required in English in the Preliminary Examination shall be such as the Joint Board of Examiners may deem sufficient.

In the case of a student whose native language is other than European, the Senatus may accept, as an alternative to Latin or Greek, any other classical language, as, for example, Sanskrit or Arabic, subject always to the provisions of Section IV., Sub-section (3) hereof.

In any classical language accepted as an alternative for Latin and Greek, the arrangement of the papers set and the allocation of marks to the different questions will be the same as for the papers in Latin and Greek. The examination, if upon the Higher Standard, will consist of two papers of two hours each.

All examinations in modern languages approved by the Senatus Academicus will consist of two papers, each of two hours' duration, and drawn up, so far as possible, in accordance with the Regulations as regards French and German.

Scope and Standard of Examinations.

English shall include Grammar and Composition, and the outlines of Geography and British History, and the standard shall not be lower than that adopted at the date of the approval of this Ordinance for a pass on the Higher Grade Standard at the Leaving Certificate Examination of the Scotch Education Department.

The **English** Examination shall consist of two papers :—

(A) *The History of the British People*. Two hours. Candidates will be expected to show acquaintance with the social as well as the political history of the British People and the relevant Geography.

About twelve questions will in general be set, of which candidates will be expected to answer six.

(B) *Composition and English Literature*. Two hours. Candidates will be required (i) to write a short Essay, (ii) to answer from four to five questions upon subjects derived from a prescribed group of texts; the themes of the Essay will also be taken upon the prescribed texts.

One or two of the questions given for choice may be of a grammatical or linguistic character; but the main object of the questions will be to test the candidate's knowledge of the texts themselves and his power of writing English correctly and well.

Two groups of texts will be prescribed in each year, either of which may be selected by a candidate. Group B in each year will become Group A in the subsequent year, and a new Group B will be added yearly.

The prescribed groups of texts for Spring and Autumn 1914 will be:—

GROUP A.

Shakespeare—*King John*.
George Eliot—*The Mill on the Floss*.
Byron—*Childe Harold*, books iii.,
iv.
Lamb—*Essays of Elia* (First Series).

GROUP B.

Shakespeare—*Much Ado about
Nothing*.
Scott—*A Legend of Montrose*.
Burke—*Present Discontents*.
Milton—*Samson Agonistes*.

For Spring and Autumn 1915.

GROUP A.

Shakespeare—*Much Ado about
Nothing*.
Scott—*A Legend of Montrose*.
Burke—*Present Discontents*.
Milton—*Samson Agonistes*.

GROUP B.

Shakespeare—*The Tenth Night*.
Spenser—*Faerie Queene*, book v.
Addison and Steele—*Spectator*,
1-50.
Stevenson—*Master of Ballantrae*.

Latin and Greek shall comprise grammatical questions, translation into English from Latin or Greek authors not previously prescribed, and translation of plain passages or easy sentences from English into Latin or Greek. The higher standard shall not be lower than that adopted at the date of the approval of this Ordinance for a pass on the Higher Grade Standard at the Leaving Certificate Examination of the Scotch Education Department, and the lower standard shall not be lower than that adopted at the said date for a pass on the Lower Grade Standard at the Leaving Certificate Examination of the said Department.

The **Latin** Examination on the **Higher Standard** will include Translation, Prose Composition, Grammar, and Sentences.

The **Greek** Examination on the **Higher Standard** will include Translation, Sentences (or an Easy Passage of continuous English Prose set either as an alternative or as a substitute), and Grammar.

The passages for Translation both from **Greek** and **Latin** will include Prose and Verse.

The **Latin** Examination on the **Lower Standard** will include Translation and Parsing, Prose Composition, Grammar, and Sentences.

The **Greek** Examination on the **Lower Standard** will include Translation, Sentences, and Grammar.

In the Latin and the Greek Papers, both on the Higher and Lower Standards, candidates are required to satisfy the Examiners both in Composition and in Translation.

Note.—The practice of granting a Lower Pass on the Higher Latin and Greek Papers has been discontinued.

French, German, and Italian shall comprise grammatical, literary, and easy philological questions, translation into English from French, German, or Italian authors not previously prescribed, and translation from English into French, German, or Italian; and the standard shall not be lower than that adopted at the date of the approval of this Ordinance for a pass on the Higher Grade Standard at the Leaving Certificate Examination of the Scotch Education Department.

French and German:—Two papers will be set in French and two in German, two hours being allowed for each; the first paper to contain a passage for translation from English into French or German, and a test in free composition on some easy subject; the second paper to contain two unseen translations into English (one in prose, one in verse), three grammatical, one philological, and one literary question. Of these five questions the candidates will be allowed to choose three.

Literature will comprise a general knowledge of the life and works of at least one of four standard writers (for French literature, two at least from the nineteenth century, and one at least from the seventeenth century), with special reference to one particular work by each of them. Two of the authors will be changed from year to year.

The authors prescribed for literary questions will be as follows, viz.:—

Spring and Autumn 1914.

FRENCH.—Racine, *Athalie*; G. Hanotaux, *La Fleur des Histoires françaises*; Rousseau, *Morceaux choisis*; René Bazin, *La Terre qui meurt*.

GERMAN.—Eichendorff, *Aus dem Leben eines Taugenichts*; Schiller, *Maria Stuart*; Wildenbruch, *Das edle Blut*; C. F. Meyer, *Gustav Adolfs Page*.

Spring and Autumn 1915.

FRENCH.—Racine, *Athalie*; Beaumarchais, *Le Barbier de Séville*; V. Hugo, *Morceaux choisis de poésie* (édition Larousse); G. Hanotaux, *La Fleur des Histoires françaises*.

GERMAN.—Eichendorff, *Aus dem Leben eines Taugenichts*: Schiller, *Maria Stuart*: Morike, *Metart auf der Reise nach Prag*: G. Keller, *Kleider machen Leute*.

Mathematics on the **Lower Standard** shall comprise—(1) Arithmetic, including Vulgar and Decimal Fractions, Proportion, Percentage, Square Root, Simple Interest; (2) Algebra, including Fractions, Factors, Square Root, Equations of the First Degree, Simultaneous Equations of the First Degree, Easy Quadratic Equations, Problems leading to the above Equations; (3) Geometry—Euclid, Books I., II., and III. (or their equivalents), with easy deductions. Demonstrations other than Euclid's will be accepted if they assume **no** propositions which in Euclid's order are subsequent to the proposition under consideration.

Mathematics on the **Intermediate Standard** shall, in addition to the subjects comprised in the lower standard, comprise—(a) Euclid, Book VI., Propositions 1-19, or Geometry equivalent thereto; (b) Algebra, Quadratic Equations, Ratio and Proportion; (c) the Trigonometry of Right-angled Triangles.

No candidate can pass on the Intermediate Standard who either does not at the same time pass on the Lower Standard, or has not previously passed on the Lower Standard.

Mathematics on the **Higher Standard** shall, in addition to the subjects comprised in the lower standard, comprise Euclid, Books IV., VI., and the first twenty-one propositions of Book XI. (or their equivalents), with deductions, Quadratic Equations, Trigonometry to the solution of Triangles inclusive, and the use of Logarithmic Tables.

In the Examination in **Mathematics** on the **Higher** and **Intermediate** and on the **Lower Standards** each question in **Geometry** will consist of two parts, of which one will be an easy deduction or illustrative exercise on the proposition set as bookwork.

There will be two papers in **Mathematics** on the **Higher** and on the **Intermediate Standard**. The first paper will consist of questions on *Geometry*, and on *Trigonometry* in the proportion of four-fifths *Geometry* and one-fifth *Trigonometry*. The second paper will consist of questions on *Algebra* (including *Arithmetic*), and on *Trigonometry* in the proportion of four-fifths *Algebra* and one-fifth *Trigonometry*, and shall contain two or more questions on *Arithmetic*, of which one at least shall be taken by all candidates.

Candidates for the **Higher Standard** may obtain full marks by doing correctly about two-thirds of the questions set in each subject ; but the Examiners will be entitled to reject a candidate who makes in any subject less than a certain minimum of the marks allotted to that subject.

The Pass-mark for candidates on the **Intermediate Standard** is fixed with reference to the total number of marks assigned to questions which fall under the syllabus of the **Intermediate Standard** ; but such candidates will receive credit for any question they may answer.

The paper in **Mathematics** on the **Lower Standard** will be devoted to the various subjects comprised in as nearly as possible the following proportions : four-ninths to *Geometry*, three-ninths to *Algebra*, and two-ninths to *Arithmetic*.

Candidates may obtain full marks by doing correctly about two-thirds of the questions set in each subject ; but the Examiners will be entitled to reject a candidate who makes in any subject less than a certain minimum of the marks allotted to that subject.

Dynamics shall mean the Elementary Statics and Kinetics of Solids, Liquids, and Gases.

The paper on **Dynamics** will be directed to test the candidate's knowledge of the fundamental principles of the subjects included in it as defined by the Ordinance above quoted.

Questions may be set which involve the Trigonometry of right-angled triangles.

Candidates may obtain full marks by doing correctly about two-thirds of the questions set in each section of the paper.

Qualifying Attendance upon Classes.

(FACULTY OF ARTS.)

IV. (1) Subject to what is hereafter contained in this Sub-section, attendance on any class shall not qualify for graduation, unless the whole Preliminary Examination has been previously passed. Any student who has passed in Latin, Greek, or Mathematics on the higher standard may attend a qualifying class in such subject or subjects without having passed in the other subjects of the examination, provided always that (a) no candidate shall be allowed to present himself for examination in any subject qualifying for graduation until he has passed the whole Preliminary Examination, and (b) no student shall be admitted to a degree in Arts unless he has attended qualifying classes in this University, or in another Scottish University, or in a University specially recognised, as provided by Section XX. hereof, for three academical years after he has completed his Preliminary Examination.

(2) Attendance on a class in any language included in the Preliminary Examination shall not qualify for graduation, unless the candidate, before entering the class, has passed the Preliminary Examination in that subject, and on the higher standard where more than one standard is provided. He may, for that purpose, attend any Preliminary Examination held during the course of his study, taking only the paper set in that subject; provided always that the provisions of the Sub-section immediately preceding shall have been satisfied.

(3) Attendance on a class in any language not included in the Preliminary Examination shall not qualify for graduation, unless the candidate has previously passed an examination in that language on a standard as nearly as possible equivalent to the higher standard of the languages included in the Preliminary Examination.

(4) Attendance on a class of Mathematics or Natural Philosophy shall not qualify for graduation unless the candidate, before entering the class, has previously passed in Mathematics on the higher standard, or on the intermediate standard.

(5) If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class as qualifying for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint; and in every such case the Senatus shall make a report to the University Court, setting forth the reasons for the relaxation.

Note.—The privilege, given under this Sub-section, entitles the student to count the attendances merely. He cannot begin to count Academic Years, or enter for any Graduation Examination, until he has completed his Preliminary Examination as a whole; nor can he enter for a Graduation Examination in any particular subject (such as Latin, Greek, etc.) for which there is an Entrance Examination, until he has passed that Examination.

Examination Arrangements and Powers of the Joint Board.¹

V. (1) The Preliminary Examination shall be held not oftener than twice in each year, under such regulations as the Senatus,

¹ Particulars in regard to the Joint Board, Lists of Members, etc., are given on page 113.

with the approval of the University Court, shall from time to time determine, and shall be conducted in writing ; but the regulations may prescribe that, with respect to any of the subjects, the written Examination shall be supplemented by an Oral or a Practical Examination.

(2) The Joint Board of Examiners, appointed under the provisions of Ordinance No. 13, General No. 8 (Regulations as to Examinations) of the aforesaid Commissioners, shall have power to accept a pass on the Higher Grade Standard at the Leaving Certificate Examination of the Scotch Education Department in any subject as an equivalent for the Preliminary Examination in that subject, to accept a pass in Science at the Leaving Certificate Examination of the said Department as an equivalent for the Preliminary Examination in the subject of Dynamics, and to accept a pass on the Lower Grade Standard at the Leaving Certificate Examination of the said Department as an equivalent for the Preliminary Examination on the lower standard in Latin, Greek, and Mathematics ; provided they are satisfied that the standard of the examination, at which the said certificates were granted, is not lower than that required by this Ordinance.

(3) The Joint Board of Examiners shall have power to determine what examinations, if any, other than the Leaving Certificate Examinations of the Scotch Education Department may be accepted as equivalent to the Preliminary Examination in whole or in part, provided they are satisfied that such other Examinations are in fact equivalent thereto.

Under powers conferred by the above Sub-sections, the Joint Board of Examiners has intimated the following :—

EXAMINATIONS EXEMPTING FROM THE PRELIMINARY EXAMINATION IN ARTS AND SCIENCE.

Note.—Applications for exemption, on the ground of having passed Examinations not included in the following list, should be addressed to the Convener of the Board, University of Glasgow. As several Universities have to be consulted, a decision on a new case cannot be guaranteed in less time than from two to three weeks.

(1) **DEGREES.**—A Degree in Arts, not being an Honorary Degree, in any of the Universities of the United Kingdom, shall

exempt from the Preliminary Examination in Arts ; and a Degree in Science, not being an Honorary Degree, in any of the Universities of the United Kingdom, shall exempt from the Preliminary Examination in Science.

(2) LEAVING CERTIFICATES.—For the Preliminary Examination in Arts and Science, Passes in the Higher and Honours Grade of the Leaving Certificate Examinations of the Scotch Education Department in Latin, Greek, and Mathematics will be accepted as equivalent to the Higher Standard in each of these subjects, as prescribed by the Arts Ordinance, and Passes in the Lower Grade or Intermediate Certificate Examinations to the Lower Standard ;¹ Passes in the Higher and Honours Grade in English, in Modern Languages, and in Dynamics, will be accepted as equivalent to the standard prescribed for each of these subjects by the Arts Ordinance ; a Pass in the Higher Grade in Science will be accepted as equivalent to the Examination in the subject of Dynamics.

The Regulation that all the subjects of the Examination shall be passed at one or not more than two Examinations shall not be held to apply to the Leaving Certificate Examinations.

(3) LONDON UNIVERSITY.—A Certificate of having passed in the Honours or First Division in English in the LONDON UNIVERSITY Matriculation Examination will be accepted as equivalent to English in the Arts and Science Preliminary Examination ; and the Joint Board also accepts, for the Preliminary Arts and Science Examination, (1) LONDON UNIVERSITY Matriculation Mathematics as equivalent to Lower Mathematics ; (2) LONDON UNIVERSITY Matriculation Mechanics as equivalent to Dynamics ; and (3) LONDON UNIVERSITY Intermediate Mathematics as equivalent to Intermediate and Higher Mathematics.

(4) OXFORD AND CAMBRIDGE SCHOOLS EXAMINATION BOARD
Exemption will be granted as follows :—

A Pass in *Latin* or *Greek* for the Lower Certificate, or for the

¹ Passes in individual subjects in the Intermediate Examination are accepted only where the Scotch Education Department have notified to the Clerk of Senatus or to the Joint Board that a sufficient standard had been reached in such subjects.

“School” or “Leaving Certificate,” will be accepted for Lower Latin or Lower Greek.

A Pass in *Latin* or *Greek* for the Higher Certificate will be accepted for Higher Latin or Higher Greek.

A Pass in *French* or *German* for the Higher Certificate will be accepted for the Arts and Science Pass in these subjects respectively.

In *Mathematics*—

Elementary Mathematics of the “School” or “Leaving Certificate.”	} Will be accepted for Lower Mathematics.
Elementary Mathematics of the Higher Certificate.	

Additional Mathematics of the “School” or “Leaving Certificate,” if endorsed with Trigonometry.	} Will be accepted for Higher Mathematics.
Additional Mathematics for the Higher Certificate.	

Of these two, the former, if not endorsed with Trigonometry, will be accepted for Lower Mathematics only.

Natural Philosophy (Mechanical Division) of the Higher Certificate will be accepted for Dynamics.

In *English*—

The Higher Certificate with English.	} Will be accepted for the Arts and Science Pass in English.
The Higher Certificate with Essay and with History <i>or</i> Geography.	
The “Leaving Certificate,” with “English History-and-Geography” (the combined subject).	

(5) OXFORD UNIVERSITY Local Examinations :—

(a) *Junior Local Examination* :—Distinction in Mathematics (if the candidate has passed both in Algebra and Geometry), with a Pass in Arithmetic, will exempt from Lower Mathematics.

A Pass in Higher Mathematics, if it includes Algebra and Geometry with a Pass in Arithmetic, will exempt from Lower Mathematics.

(b) *Senior Local Examination*:—A Pass in Latin will exempt from Lower Latin; a Pass in Greek will exempt from Lower Greek; Distinction in Latin will exempt from Higher Latin; Distinction in Greek will exempt from Higher Greek; Distinction in French or German will exempt from French or German respectively; a Pass in Mathematics, including Algebra and Geometry, with Arithmetic, will exempt from Lower Mathematics; a Pass in Higher Mathematics, including Algebra, Geometry, and Trigonometry, will exempt from Higher Mathematics; a Pass in English Language and Literature, History, and Geography (with Distinction in the first of the three) will exempt from English.

(c) *Higher Local Examination*:—This will be accepted *pro tanto*.

(6) CAMBRIDGE UNIVERSITY Local Examinations:—

(a) *Junior Local Examination*:—Distinction in Mathematics will exempt from Lower Mathematics, provided it includes a Pass in both Algebra and Geometry.

(b) *Senior Local Examination*:—A Pass in Latin will exempt from Lower Latin; a Pass in Greek will exempt from Lower Greek; Distinction in Latin will exempt from Higher Latin; Distinction in Greek will exempt from Higher Greek; Distinction in French or German will exempt from French or German respectively; a Pass in Algebra and Geometry will exempt from Lower Mathematics; a Pass in Mathematics, including a Pass in Algebra, Geometry, and Trigonometry, will exempt from Higher Mathematics; a Pass in English Language and Literature, History, and Geography (with distinction in the first of the three) will exempt from English.

(c) *Higher Local Examination*:—This will be accepted *pro tanto*.

(7) UNIVERSITY OF BIRMINGHAM Matriculation Examination:—

Candidates who have passed the Birmingham University Matriculation Examination, and have been placed in Class I. will be exempted in any or all of the subjects of English, Higher Latin, Higher Greek, Higher Mathematics, French, German, provided the subject (or subjects) has been included in the

examination in question. Candidates who have obtained a "Pass" only, will be exempted in the Lower Standard in Latin, Greek, and Mathematics.

(8) INTERMEDIATE EDUCATION BOARD FOR IRELAND.
Senior Grade Examination :—

Candidates who have obtained Honours in a subject will be exempted in the Higher Standard in that subject, and those who have obtained 55 per cent. in English will be exempted in English.

(9) BRITISH COLONIES AND POSSESSIONS :—

Candidates from British Colonies and Possessions who present evidence that they have passed examinations which would admit them to Universities or to Technical Colleges affiliated to a University, in their home country, will be exempted, provided (1) that the evidence shows that they possess a knowledge of English sufficient to enable them to follow the Lectures with profit; (2) that before attending any Class in English, any other Language, Mathematics, or Natural Philosophy, they shall produce evidence of having passed the examination required under Ordinance No. 11 (Regulations for Degrees in Arts), Section IV., (2), (3), and Ordinance No. 44, Section V., or its equivalent; and (3) that candidates for degrees in Engineering shall produce evidence of a knowledge of Mathematics equivalent to the Standard of Higher Mathematics in the Preliminary Examination.

Note.—In the case of candidates from India applying for exemption from the Preliminary Examination in Science in Engineering, the Joint Board will accept as evidence of a sufficient knowledge of Mathematics a satisfactory Pass in that subject in any of the Intermediate Examinations of the Indian Universities. A note of the marks obtained by the Candidate in an Intermediate Examination must be communicated to the Convener of the Board.

(10) CONTINENTAL COUNTRIES :—

Abiturienten-Examen giving admission to German Universities, and corresponding Examinations in other countries.

(11) COLLEGE OF SCIENCE, POONA (Engineering College affiliated to the University of Bombay):—

Final Examination for Degree in Engineering will be accepted as exempting from the Science Preliminary Examination (Engineering).

(12) ST JOHN'S UNIVERSITY, SHANGHAI, CHINA:—

Examinations comprised in the Arts Curriculum of the St John's University, Shanghai, taken and passed by Graduates in Arts (B.A.) of that University.

(13) ANGLO-CHINESE COLLEGE, AMOY:—

First Class Certificates.

(14) UNIVERSITY OF BUENOS AIRES:—

Argentine Certificates giving admission to the University of Buenos Aires.

NOTE.—By *pro tanto* is meant that a certificate of having passed in the Examination referred to, in any subject required for the Arts and Science Preliminary Examination, shall, as regards that subject, exempt from further Examination in the said Preliminary Examination, provided that all the remaining subjects shall be passed at one or not more than two Examinations.

Time-Table of Examinations, and Dates for Payment of Fees.

The Preliminary Examinations are held in the Examination Rooms, University (Old) Buildings, South Bridge, in Autumn and Spring.

Each candidate must pay a fee of 10s. 6d. for each appearance at the Preliminary Examination.

Entries must be made at the Matriculation Office, University (Old) Buildings, between 1st and 4th September (office hours, 10-1) for the Autumn Examinations, and between 24th February and 1st March (10-4) for the Spring Examinations. In applying for Entry Forms, candidates are required to state whether they are for Arts, Science, or Medicine.

∴ Candidates for Examination in Languages other than Latin, Greek, French, or German are required to enter and pay Fees not later than 14th August for the Autumn Examinations, and 13th February for the Spring Examinations. Any later entry must be accompanied by a *Special Late Entry Fee* of 10s.

Candidates who cannot pay the fees personally may transmit them to JAS. DOWIE, University, Edinburgh, by *Money Orders* or *Postal Orders*. When names are not entered and fees paid, or a pass to the examination obtained where the fee has been previously paid, on or before the stated dates, an additional or *Late Entry Fee* of 10s. must be paid before the candidate can be admitted to the examination. A candidate must enter his name and pay the fee, or, when the fee has been previously paid, obtain a pass, for each periodical Examination at which he desires to appear. If, after payment of the fee, a candidate withdraws his name, or fails to present himself at the Examination, he will not receive back the fee, but will be allowed to appear at a subsequent Examination without payment of any additional fee, on condition that he duly enters his name for that Examination.

Time-Tables for Preliminary Examinations for Arts, Science, etc., and for Bursary Examinations, 1914-1915 (see also p. 293.)

Date.		Arts, Science, etc., and Bursary Examinations.	Hours.
1914.			
Sept. 10	Thur.	*Additional English for First Year Bursaries	9-12
		*Additional French for First Year Bursaries	1-2.30
		*Additional German for First Year Bursaries	3-4.30
" 11	Fri.	*English, 1st paper	9-11
		*Higher Latin, 1st paper	12-2
		Latin for Second and Third Year Bursaries	12-3
		Lower Latin	3-6
" 12	Sat.	*English, 2nd paper	9-11
		*Intermediate and Higher Mathematics, and Mathematics for First, Second, and Third Year Bursaries, 1st paper	12-2
		*French, 1st paper	3-5
" 14	Mon.	*Higher Latin, 2nd paper	9-11
		*Intermediate and Higher Mathematics, and Mathematics for First, Second, and Third Year Bursaries, 2nd paper	12-2
		Lower Mathematics	3-6
" 15	Tu.	*Higher Greek, 1st paper	9-11
		Lower Greek	12-3
		Indian Vernacular Languages, etc.	9-11, 12-2
		Greek for Second and Third Year Bursaries	3-6
		*German, 1st paper	4-6
" 16	Wed.	*Higher Greek, 2nd paper	9-11
		*French, 2nd paper	12-2
		Sanskrit (see § IV. (3) of Regulations, page 95)	9-11, 12-2
		Logic and Philosophical Introduction for Third Year Bursaries	3-6
		Dynamics	3-6
" 17	Thur.	*German, 2nd paper	9-11
		Hebrew, Arabic, Syriac, *Celtic, Persian (see § IV. (3), page 95)	9-11, 12-2
		*Italian	12-2, 3-5
		*History	11-2
		*Geography	3-6

* Papers for the First Year Bursary Examination.

Date.		Arts, Science, etc., and Bursary Examinations.	Hours.
1914.			
Sept. 18	Fri.	Elementary Physics (for Music)	9-11
		Logic (for Music)	2-4
		*Additional Classics for First Year Bursaries—	
		Latin	9-10.30
		Greek	10.30-12
		Classics for Second and Third Year Bursaries—	
		Latin	9-10.30
		Greek	10.30-12
		*Additional Mathematics for First, Second, and Third Year Bursaries	2-5
" 19	Sat.	Higher Geometry for John Welsh Bursaries, and for Kelland Prize	9-12
		*Additional Celtic	9-12
Sept. 25, Fri.	} MEETINGS OF JOINT BOARD.		
" 26, Sat.			
" 28, Mon.		RESULTS POSTED TO CANDIDATES (probably).	
Oct. 13, Tu.		CLASSES OPEN IN FACULTY OF ARTS.	
1915.			
Mar. 12	Fri.	English, 1st paper	9-11
		Higher Latin, 1st paper	12-2
		Lower Latin	3-6
" 13	Sat.	English, 2nd paper	9-11
		Intermediate and Higher Mathematics, 1st paper	12-2
		French, 1st paper	3-5
" 15	Mon.	Higher Latin, 2nd paper	9-11
		Intermediate and Higher Mathematics, 2nd paper	12-2
		Lower Mathematics	3-6
" 16	Tu.	Higher Greek, 1st paper	9-11
		Lower Greek	12-3
		Indian Vernacular Languages, etc.	9-11, 12-2
		German, 1st paper	4-6
" 17	Wed.	Higher Greek, 2nd paper	9-11
		French, 2nd paper	12-2
		Sanskrit (see § IV. (3), page 95)	9-11, 12-2
		Dynamics	3-6
" 18	Thur.	German, 2nd paper	9-11
		Italian	12-2, 3-5
		Hebrew, Arabic, Syriac, Celtic, Persian (see § IV. (3), page 95)	12-2, 3-5
		Elementary Physics	2-4
		Logic	2-4
April 2, Fri.	} MEETINGS OF JOINT BOARD.		
" 3, Sat.			
" 5, Mon.		RESULTS POSTED TO CANDIDATES (probably).	

* Papers for the First Year Bursary Examination.

MEDICAL PRELIMINARY EXAMINATION.

The following are the Clauses of the Medical Ordinance (No. 12, University Court, Edinburgh) which relate to the Preliminary Examination :—

IV. Before commencing his course of Medical study, each student shall pass a Preliminary Examination in (1) English, (2) Latin, (3) Mathematics, and (4) an Additional Language, namely, Greek, French, German, Italian, or such other language as the Senatus may approve: Provided always that, in the case of a student whose native language is other than English, an examination in any other classical language, for example, Sanskrit or Arabic, may be substituted for an examination in Latin, and an examination in the student's native language may be substituted for an examination in the Additional Language.¹

V. The extent and standard of the Preliminary Examination shall be determined by the Joint Board of Examiners constituted under Ordinance No. 13, General No. 8 [Regulations as to Examinations] of the Commissioners under the Universities (Scotland) Act, 1889, and Ordinances explaining, amending, or supplementing the same in accordance with the terms of that Ordinance, or shall be determined by such other Board as may hereafter be constituted by Ordinance.

VI. The Preliminary Examination shall be conducted in accordance with the provisions of the aforesaid Ordinance No. 13, or by such other Board as may hereafter be constituted by Ordinance; and, subject to the provisions of the immediately succeeding section hereof, a student shall be obliged to pass in all the required subjects at one or not more than two examinations; provided that he may offer himself for re-examination as often as may be necessary to satisfy this condition.

VII. A Degree in Arts or in Science (not being a Degree *honoris causâ tantum*), in any of the Universities of the United

¹ See Regulation as to early entry for Special Languages, p. 102.

Kingdom, or in any Indian, Colonial, or Foreign University specially recognised for the purpose by the University Court, shall exempt from the Preliminary Examination; and the Joint Board of Examiners appointed under the provisions of the aforesaid Ordinance No. 13, or such other Board as may hereafter be constituted by Ordinance, shall have power to determine what examinations other than those for the Degrees hereinbefore mentioned shall be accepted, either in whole or in part, in place of the Preliminary Examination.

Candidates are also referred to the Regulations for Registration of Medical Students, p. 504. Communications as to the Preliminary Examinations should be addressed to the Clerk of Senatus.

For the ARTS AND SCIENCE PRELIMINARY, see the Programmes of the respective Faculties.

Scope and Standard of Examinations.

The following are the (abridged) Supplementary Regulations issued by the Joint Board of Examiners under the powers above conferred:—

The papers set in **Latin**, **Greek**, and **Mathematics** are the same as those set on the Lower Standard in these subjects in the Arts and Science Preliminary Examination.

These are defined in the Regulations relating to the Arts and Science Preliminary, as follows:—

The **Latin**¹ Examination will include—Translation and Parsing, Prose Composition, Grammar, and Sentences.

The **Greek**¹ Examination will include—Translation, Sentences, and Grammar.

In the Latin and Greek papers, Candidates are required to satisfy the Examiners both in composition and in translation.

The paper in **Mathematics** will be devoted to the various subjects comprised, in as nearly as possible the following proportions:—Four-ninths to *Geometry*, three-ninths to *Algebra*, and two-ninths to *Arithmetic*.

Candidates may obtain full marks by doing correctly about two-thirds of the questions set in each subject; but the Examiners will be entitled

¹ No books prescribed.

to reject a Candidate who makes in any subject less than a certain minimum of the marks allotted to that subject.

In **English** no set books shall be prescribed, nor shall a general knowledge of the life and works of the greater authors be expected of candidates, but one or two questions may be set, giving an opportunity to candidates to show a knowledge of famous literary works. The historical questions shall not be confined to any one period, but shall cover the whole of British History, and shall be set in such a way as to give an opportunity to candidates who have confined their studies to a single period to show their knowledge. A single three hours' paper shall be set, containing an Essay, a Paraphrase, two questions on History, two on Geography, four on Grammar (including Correction of Sentences, Parsing, Analysis of Sentences, and Derivations), two of a literary and general kind. Eight answers shall be required. The eight shall include the Essay and the Paraphrase, and at least one question in History and one in Geography.

One paper shall be set in **French**,¹ and one in **German**.¹ The papers shall be of a lower standard than those set in these subjects in the Arts and Science Preliminary. The time allowed for each of these papers shall be three hours. The paper in each subject shall comprise questions in Grammar, translation into English, and Composition (including a continuous passage, and short sentences of an idiomatic character).

The papers set in examinations in the **native language** of a candidate (as a substitute for French or German, under the above-mentioned Medical Ordinances) or in **another classical language** (as a substitute for Latin or Greek) shall conform, so far as possible, to the directions for setting papers in Modern Languages and in Latin or Greek respectively.

Candidates who, having taken **English** or a **Modern Language** on the Higher Standard, as prescribed by the Arts Ordinance for the Arts and Science Preliminary, have obtained a satisfactory percentage of marks, shall be held to have passed the Medical Preliminary in these subjects, provided that all the required subjects are passed at not more than two Examinations.

It shall be in the option of any candidate for the Medical Preliminary to take the papers set on the Higher Standard for the Arts Preliminary in any of the subjects.

It shall be at the Board's discretion at all times in the case of any candidate for the Medical Preliminary who professes all his four subjects at one time, and who has obtained in all a number of marks equivalent to the sum of the marks required for a Pass in each, to allow such candidate a pass in the whole Examination, provided that in no single subject he has obtained less than half of the marks required for a Pass, and that the Pass-mark be reached in the English Paper. Special consideration is given, at the discretion of the Board, in the case of foreign candidates; but a candidate whose native language is not English must have passed in at least two of the subjects without deduction being made on his behalf from the ordinary standard prescribed by the Board in these subjects.

¹ No books prescribed.

Under powers above conferred, the Joint Board of Examiners has issued the following:—

**EXAMINATIONS EXEMPTING FROM THE MEDICAL
PRELIMINARY EXAMINATION.**

Provided always that the Regulations of the General Medical Council regarding the Registration of Students of Medicine be complied with.

(Note.—Applications for exemption on the ground of having passed Examinations not included in the following list, should be addressed to the Convener of the Joint Board of Examiners, University, Glasgow. As several Universities have to be consulted, a decision on a new case cannot be guaranteed in less time than from two to three weeks.)

DEGREES.

(1) In terms of the Medical Ordinances, “a Degree in Arts or in Science (not being a degree *honoris causâ tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University, specially recognised for the purpose by the University Court, shall exempt from the Preliminary Examination.”

ARTS AND SCIENCE PRELIMINARY, ETC.

(2) Any candidate who produces a Certificate of having passed the Preliminary Examination in Arts or Science in any Scottish University, either at the University Examination or through the Leaving Certificate Examinations of the Scotch Education Department, or partly at the University Examination and partly through the Leaving Certificate Examinations, shall be held to have passed the Preliminary Examination for Medicine, provided that the Examination has included the specified subjects of General Education as required under the Regulations of the General Medical Council, and by the Medical Ordinances of the Scottish Universities Commissioners.

(3) A candidate who has passed the Arts and Science Preliminary Examination of the Joint Board in any subject (Higher Standard, where there is more than one) recognised for the Medical Preliminary Examination, shall be exempted from further Examination in that subject in the aforesaid Preliminary Examination.

LEAVING CERTIFICATES.

(4) A candidate who passed in the Honours Grade, or who has passed in the Higher Grade, in any subject of the Leaving

Certificate Examinations of the Scotch Education Department, recognised for the Medical Preliminary Examination, shall be exempted from further Examination in that subject in the aforesaid Preliminary Examination.

The Regulation that all the subjects of the Examination shall be passed at one or not more than two Examinations shall not be held to apply to the above cases (2, 3, and 4). But candidates complying with Rules (2, 3, and 4) must obtain a University Certificate, specifying the Examinations passed by them which have been accepted as equivalents to the Preliminary, and must present said Certificate to the Medical Registrar in order to registration.

Further, each such candidate when applying for said Certificate must, if he has not entered for any part of the Preliminary, produce a Matriculation Card from some one of the Scottish Universities.

(5) Passes in the Lower Grade of the Leaving Certificate Examinations of the Scotch Education Department will not be accepted as exempting from the Medical Preliminary Examination, unless the Examinations in all the requisite subjects have been taken and passed at one or not more than two Examinations.

The Intermediate Certificate of the Scotch Education Department shall be accepted in lieu of the Medical Preliminary Examination, provided that it includes the four requisite subjects. When all the necessary subjects are not included, passes in individual subjects may be accepted if the Department has notified to the Clerk of Senatus or to the Joint Board that a sufficient standard has been reached in such subjects.

ENGLISH AND IRISH UNIVERSITY EXAMINATIONS.

(6) The following Examinations will be accepted¹ (provided they include all the subjects required under the Regulations of the General Medical Council, and prescribed by the Medical Ordinances of the Scottish Universities), viz. :—

OXFORD Responsions, or Moderations—provided the candidate pass the Examination of the Joint Board in English.

CAMBRIDGE Previous Examination—provided that candidates

¹ The following Regulation shall be held to apply to the acceptance of these Examinations: A candidate shall be obliged to pass in all the required subjects at one or not more than two Examinations; provided that he may offer himself for re-examination as often as may be necessary to satisfy this condition.

who have passed it prior to Michaelmas 1896, shall pass the Examination of the Joint Board in English. If passed after Michaelmas 1896, the Previous Examination will be accepted as exempting *in toto*.

OXFORD AND CAMBRIDGE SCHOOLS EXAMINATION BOARD.—The Passes in Latin, Greek, and Mathematics specified as exempting from the Lower Standard in Arts and Science (see under Arts) will exempt also from the Medical Preliminary in these subjects. The Pass in French or German for the Lower Certificate, or for the "School" or "Leaving Certificate," will be accepted for a Pass in the Medical Preliminary in French or German. For English, the Board will accept (1) The Higher Certificate with English; (2) The Higher Certificate with Essay and History or Geography; (3) The "School" or "Leaving Certificate" in English with *either* History or Geography; (4) The Lower Certificate in English, History, and Geography.

OXFORD Senior Local Examination will be accepted *pro tanto*, in subjects other than English; in English, if only a pass is offered, Composition must have been taken, with Literature or a Literary Subject.

OXFORD Higher Local Examination will be accepted *pro tanto*.

CAMBRIDGE Senior Local Examinations will be accepted *pro tanto*, except that, in English, Composition must have been taken, with Literature or a Literary Subject.

CAMBRIDGE Higher Local Examinations will be accepted *pro tanto*.

LONDON UNIVERSITY Matriculation Examination.

QUEEN'S UNIVERSITY OF BELFAST :—Matriculation Examination.

UNIVERSITIES OF MANCHESTER, LIVERPOOL, LEEDS, AND SHEFFIELD :—Joint Matriculation Examination (the whole examination must be passed, as required for admission to the Faculties of these Universities).

UNIVERSITY OF BIRMINGHAM Matriculation Examination will be accepted *pro tanto*.

Note.—By *pro tanto* is meant that a certificate of having passed the Examination referred to, in any subject required for the

Medical Preliminary Examination, shall, as regards that subject, exempt from further examination in the said Preliminary Examination, provided that all the remaining subjects shall be passed at one or not more than two examinations.

COLONIAL AND FOREIGN UNIVERSITY EXAMINATIONS.

(7) Provided that the Examinations include all the subjects prescribed by the Medical Ordinances of the Scottish Universities, and are recognised by the General Medical Council, and that the Candidates possess a knowledge of English sufficient to enable them to follow with profit the courses of instruction in this country :—

(a) BRITISH COLONIES AND DEPENDENCIES :—

Candidates from British Colonies and Possessions will be exempted if they present evidence that they have passed all the Preliminary Examinations in the subjects above referred to that are prescribed for students proceeding to graduation in Medicine at a University or College empowered to confer degrees in their home country.¹

(b) CONTINENTAL COUNTRIES :—

Abiturienten-Examen of (1) the Gymnasium, (2) Realgymnasium, and (3) Oberrealschule of Germany, and corresponding Entrance Examinations to the Universities of other countries, will be accepted.

(c) EGYPT :—

Secondary Education Certificate (Literary side).

(d) ANGLO-CHINESE COLLEGE, AMOY :—

First Class Certificates.

For the Requirements of the CARNEGIE TRUST in respect to Preliminary Education, see APPENDIX.

Entry for Medical Preliminary Examination.

See under ARTS AND SCIENCE PRELIMINARY, page 102.

¹ The General Medical Council accepts the following Indian University Examinations :—*Calcutta*—First in Arts, and Matriculation; *Madras*—First in Arts; *Bombay*—Matriculation; *Panjab*—Intermediate in Arts; *Allahabad*—Intermediate in Arts. If deficient in a third language, this subject must be passed separately. Special Certificates for Indian Students are issued by these Universities.

Time-Table for Medical Preliminary Examinations for 1914-1915.

Date.		Medical Preliminary Examinations.	Hours.
1914.			
Sept. 11	Fri.	English	9-12
		Latin	3-6
" 12	Sat.	French	3-6
		*French	3-5
" 14	Mon.	Mathematics	3-6
" 15	Tu.	Greek	12-3
		*Greek	12-2
		Indian Vernacular Languages	12-3
" 16	Wed.	German	3-6
		*German	3-5
		Oriental Classical Languages	3-6
		*†Mechanics	3-6
" 17	Thur.	*Moral Philosophy	9-11
		*Natural Philosophy	9-11
		*Logic	2-4
Sept. 25, Fri. }		MEETINGS OF JOINT BOARD.	
" 26, Sat. }			
" 28, Mon. }			
		RESULTS POSTED TO CANDIDATES (probably).	
1915.			
Mar. 12	Fri.	English	9-12
		Latin	3-6
" 13	Sat.	French	3-6
		*French	3-5
" 15	Mon.	Mathematics	3-6
" 16	Tu.	Greek	12-3
		*Greek	12-2
		Indian Vernacular Languages	12-3
" 17	Wed.	German	3-6
		*German	3-5
		Oriental Classical Languages	3-6
		*†Mechanics	3-6
" 18	Thur.	*Moral Philosophy	9-11
		*Natural Philosophy	9-11
		*Logic	2-4
April 2, Fri. }		MEETINGS OF JOINT BOARD.	
" 3, Sat. }			
" 5, Mon. }			
		RESULTS POSTED TO CANDIDATES (probably).	

* For Students completing the Examination for M.D. under the Old Regulations.
† Same as Dynamics for Degrees in Arts and Science.

Joint Board of Examiners of the Scottish Universities.

A Joint Board of Examiners, which controls and supervises the Preliminary Examinations, is appointed annually by the University Courts of the four Scottish Universities, and holds office from 1st February to 31st January in the succeeding year. The Board sits for a year at each University in rotation, viz.:—St Andrews, Glasgow, Aberdeen, Edinburgh. The Principal of the University at which the Board sits is Chairman for the time, and the Secretary of the University Court is Convener.

The following are the Members of the Board for the current year (1st February 1914 to 31st January 1915), and its meetings take place at the University of Glasgow.

Chairman — Principal Sir Donald Macalister, University, Glasgow.

Convener — Alan E. Clapperton, B.L., University, Glasgow.

University of St Andrews — English, Professor Alexander Lawson, M.A., D.D.; Classics, Professor Burnet, M.A., LL.D.; Mathematics and Dynamics, John R. Pullar, M.A.; Modern Languages, Henri Cottin, D. en D.

University of Glasgow — English, Professor Macneile Dixon, Litt.D.; Classics, W. King Gillies, M.A.; Mathematics and Dynamics, Andrew Hutchison, M.A., B.Sc.; Modern Languages, Mons. Charles Martin, M.A., O.I.

University of Aberdeen — English, A. M. Williams, M.A.; Classics, J. A. K. Thomson, M.A.; Mathematics and Dynamics, Professor Macdonald, M.A., F.R.S.; Modern Languages, Dr Scholle.

University of Edinburgh — English, Professor F. W. Moorman, M.A.; Classics, Professor A. W. Mair, M.A., Litt.D.; Mathematics and Dynamics, Professor E. T. Whittaker, M.A., F.R.S.; Modern Languages, Professor Henri L. Chatelain, D.ès-L.

FACULTY OF ARTS

DEAN—PROFESSOR LODGE, M.A., LL.D.

PROGRAMME OF CLASSES, 1914-1915.

Note.—Further information regarding the Courses is given on the pages stated in the last column of the Table.

The Classes will be opened as in the following Table. They will close for the Christmas vacation on Friday, 18th December 1914 (Autumn Term); will reassemble on Tuesday, 12th January 1915, and close on Friday, 19th March 1915 (Spring Term); will reassemble on Tuesday, 20th April, and close not later than Friday, 18th June (Summer Term).

A DAILY TIME TABLE OF ARTS GRADUATION CLASSES is given on page 121.

In most of the Classes, Lectures are given on three days of the week; while on other days, generally at the same hour, the Class meets in Sections for Tutorial Instruction.

I. DEPARTMENT OF LANGUAGE AND LITERATURE.

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees. See also pp. 120 & 122	See also page
Latin ¹ —Higher Division	.	{ Prof. Hardie and James Mill, M.A. . }	£4 4	144
Lower Division	.			
Latin (Honours)	.	{ Prof. Hardie . }	4 4	147
Latin Composition (Honours)	.			
Latin (Honours Half-Course)	.	{ James Mill, M.A. . }	1 1	147
Greek .	.			
Greek (Honours)	.	{ Prof. Mair . }	2 2	147
Greek Composition (Honours)	.			
Greek (Elementary Course)	.	{ H. J. W. Tillyard, M.A. Prof. Baldwin Brown. }	4 4	149
Greek (Honours Half-Course)	.			
Classical Archæology (Honours Course)	.		1 1	150
	.		3 3	149
	.		2 2	149
	.		4 4	150

English Literature (Honours Course) ²	14 Oct.	4 p.m.	Prof. Saintsbury	4	4	155
English Language (Honours Course) ²	13 Oct.	2 p.m.		4	4	157
English Language (Honours Course) ²	15 Oct.	3 p.m.		4	4	158
English Literature (Hons. Half-Course) (<i>Tri.</i>)	16 Oct.	3 p.m.	A. Blyth Webster, M.A.	2	2	159
English (2nd Course)—Scots Lit. (Autumn)	20 Oct.	4 p.m.		...	...	156
Language in relation to Literature (Spring)	12 Jan.	4 p.m.	George Kitchen, M.A., B.Litt.	...	...	156
French (1st Course)	14 Oct.	3 p.m.	Charles Sorel, K.O.L.,	4	4	161
French (2nd Course)	13 Oct.	3 p.m.	Ph.D., D.Litt., and R. L.	4	4	162
French Literature (<i>Thursday</i>) ⁴	15 Oct.	3 p.m.	Graeme Ritchie, M.A.,	1	1 ³	163
French History (<i>Wednesday</i>) ⁴	14 Oct.	3 p.m.	D.Litt. (Paris)	1	1 ³	163
French (Honours) ⁴	14 Oct.	4 p.m.		4	4	163
German (1st Course)	13 Oct.	4 p.m.		4	4	164
German (2nd Course)	13 Oct.	4 p.m.		4	4	165
German Prose Composition (<i>Thursday</i>)	15 Oct.	4 p.m.		4	4	165
German Literature (<i>Tuesday</i>) ⁵	13 Oct.	4 p.m.		1	1 ³	165
German (Honours) ³	14 Oct.	3 p.m.		4	4	167
German Adv. Prose Composition (<i>Wed.</i>) ⁶	14 Oct.	3 p.m.	Dr Schlapp, H. F. Eggeling,	1	1 ²	168
German (Special Tutorial Course)	13 Oct.	5 p.m.	M.A., and Assistant	2	2	167
German (Honours Tutorial Course)	20 Apr.			2	2	168
Sanskrit (Junior)	14 Oct.	2 p.m.		3	3	172
Sanskrit (Senior)	14 Oct.	3 p.m.	Prof. Eggeling	4	4	172
Hebrew (Elementary) (<i>Tuesday and Thursday</i>)	13 Oct.	2 p.m.		1	11	174
Hebrew (Junior)	13 Oct.	10 a.m.		3	3	174
Hebrew (Senior)	13 Oct.	9 a.m.		4	4	174
Hebrew (Honours)	14 Oct.	10 a.m.	Prof. Kennedy and Assistant	4	4	175
Aramaic (Honours) (<i>Tuesday and Thursday</i>)	13 Oct.			2	2	175
Arabic (Junior)	14 Oct.	2 p.m.		3	3	176
Arabic (Senior)	14 Oct.	3 p.m.	Edward Robertson, M.A.,	4	4	176
Arabic (Honours)	14 Oct.	4 p.m.	B.D., D.Litt.	4	4	176
Celtic	13 Oct.	4 p.m.		2	2 ⁶	178
Celtic (Advanced)	19 Oct.	3 p.m.	Prof. Watson	1	1	179

¹ Special Test Examination for this Class (see page 144).
² This Course may be divided into three Half-Courses. Fee for each, £2, 2s. ³ Five Shillings Entrance Fee for Non-matriculated Students (see page 35).
⁴ Lectures given in French.
⁵ Lectures given in German.
⁶ When taken as a Graduation Course, £4, 4s.

II. DEPARTMENT OF MENTAL PHILOSOPHY.

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees. See also pp. 120 & 122	See also page
Logic and Philosophical Introduction	13 Oct., 1 p.m.	{ Prof. A. S. Pringle Pattison .	+	180
Advanced Metaphysics (Honours Course) ¹	14 Oct., 3 p.m.		+	180
Ancient Philosophy—(A. Introductory)— Section (1) (<i>Tuesday and Thursday</i>)	20 Apr., 12 noon		1 1	181
Section (2) (<i>Wednesday and Friday</i>)	21 Apr., 11 a.m.	{ R. P. Hardie, M.A. .	1 1	181
Ancient Philosophy — (B. Honours Half- Course)	14 Oct., 11 a.m.		2 2	182
Advanced Logic (Honours Half-Course)	12 Jan., 11 a.m.		2 2	182
Moral Philosophy (First Ordinary Course)	14 Oct., 12 noon	{ Prof. James Seth .	+	182
Moral Philosophy (Honours Class)	26 Oct., 10 a.m.		+	184
Moral Philosophy (Second Ordinary Course)	26 Oct., 12 noon		+	183
Moral Philosophy (Honours Half-Course)	21 Apr., 10 a.m.	{ Henry Barker, M.A. .	2 2	184
Psychology	14 Oct., 2 p.m.		+	184
Advanced Psychology (Honours Course)	14 Oct., 4 p.m.		+	185
Applied Psychology	22 Apr., 2 p.m.	{ Dr Smith and Assistant		186
Political Economy	13 Oct., 9 a.m.		+	187
Political Economy (Honours Course)	15 Oct., 11 a.m.		+	189
Political Economy (Elementary Course) ⁴	20 Apr., 9 a.m.	{ J. B. Guild, M.A. .	1 1	188
Statistics and Mathematical Economics	20 Apr., 4 p.m.		2 2	192
Education (Theory and History of)	13 Oct., 9 a.m.		+	195
Education (Advanced Course)	14 Oct., 11 a.m.	{ Prof. Darroch and Mr Drever	+	196
Education (Modern Systems and Problems)	20 Apr., 9 a.m.		2 2	196
Natural Theology (Gifford Lectureship)	{ Dates to be announced.		{ M. Henri Bergson .	Free.

Mathematics (First Ordinary Course)	13 Oct., 9 a.m.	Professor Whittaker and Lecturers	4	4	197
Mathematics (Second Ordinary Course)	13 Oct., 12 noon		4	4	198
Mathematics (Intermediate Honours)	14 Oct., 11 a.m.		4	4	198
Mathematics (Advanced Honours and Laboratory)	14 Oct., 10 a.m.		4	4 ⁶	199
Mathematics (Function Theory)	21 April, 11 a.m.	Mr. Gird	2	2	199
Mathematics (Post Graduate Course)	Oct.,	Prof. Whittaker			199
Mathematics, Technical : First Course	13 Oct., 9 a.m.	E. M. Horsburgh, M.A.	4	4	198
Mathematics, Technical : Second Course	13 Oct., 11 a.m.	B.Sc.	4	4	198
Natural Philosophy	14 Oct., 11 a.m.	Prof. Barkla and Dr. Curie	5	5 ⁷	200
Natural Philosophy and Applied Mathematics (M.A. Honours Classes) :—					
Dynamics ¹ (Autumn)	14 Oct., 9 a.m.	C. G. Knott, D.Sc.	2	2 ¹	202
Heat ² (Spring)	13 Jan., 9 a.m.	Prof. Barkla	2	2 ¹	202
Electricity (1) (Autumn)	14 Oct., 12 noon	Prof. Barkla	2	2 ¹	203
Electricity (2) (Spring)	12 Jan., 11 a.m.	Prof. Barkla	2	2 ¹	203
Advanced Dynamics ³ (Spring)	13 Jan., 12 noon	C. G. Knott, D.Sc.	2	2 ¹	203
Quaternions and its Physical Application ⁴ (Summer)	21 April, 9 a.m.	C. G. Knott, D.Sc.	2	2	204
Exp. Physics (Inter. Honours) ⁵ (Summer)	21 April, 9 a.m.	G. A. Curie, M.A., D.Sc.	2	2 ¹⁰	202
Adv. Exp. Physics (Final Hons.) ⁶ (Summer)	21 April, 10 a.m.		2	2 ¹⁰	203
Physical Optics ⁷ (Autumn and Spring)	13 Oct., 12 noon	J. R. Milne, D.Sc.	2	2	203
Physical Laboratory	13 Oct., 10 a.m.	Prof. Barkla and Lecturers	see p. 80		80

¹ This Course may be divided into two Half-Courses. Fee for each, £2, 2s.

² Free to post and present members of the class of Psychology.

³ Or two Half-Courses, £2, 2s. each. The £4, 4s. fee also covers the Summer Tutorial Class, whether taken before or after the Ordinary Course.

⁴ A Tutorial Course of Twenty Lectures. Students who take this class pay £3, 3s. for the Winter Course.

⁵ Fee for Half-Course, which may be taken separately, £2, 2s. 6 5s. Entrance Fee for Non-matriculated Students (see page 35).

⁶ This Fee covers the Lectures and the fifty hours Laboratory Course.

⁷ The fee for both Honours Half-Courses, when paid at the beginning of the Autumn Term, is £3, 3s.

⁸ Fee for each of the Courses, £2, 2s.; for the two, if taken together, £3, 3s.

III. DEPARTMENT OF SCIENCE—continued.

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees. See also pp. 120 & 122	See also page
Astronomy ¹	13 Oct., 3 p.m.	Prof. Sampson	£4 +	207
Chemistry, ² 1st Course	13 Oct., 10 a.m.	Dr L. Dobbin and Prof. Walker	4 +	208
Chemistry, ² 2nd Course	13 Oct., 10 a.m.		4 +	209
Chemical Laboratory	13 Oct.	Prof. Walker and Lecturers	4 +	209
Zoology (Elementary).	13 Oct., 12 noon		4 +	210
Practical Zoology (Elementary)	12 Jan., 12 noon	Prof. Ewart and Lecturers	2 2 ³	210
Zoology (Elementary)	20 Apr., 12 noon		4 +	210
Practical Zoology (Elementary)	20 Apr., 10-12		2 2 ³	210
Vertebrate Morphology	12 Jan., 12 noon		4 +	210
Invertebrate Zoology	21 Apr., 2 p.m.	J. Beard, D.Sc.	3 3 ³	210
Philosophical Biology and Genetics	13 Oct., 4 p.m.	J. H. Ashworth, D.Sc.	3 3 ³	210
Botany, Three Term Course (<i>Tues. and Thurs.</i>)	13 Oct., 2 p.m.	A. D. Darbishire, M.A.	2 2	210
Field Demonstrations, Saturdays.	13 Oct., 2 p.m.	Prof. Balfour & R. C. Davie, M.A., B.Sc.	6 6 ⁴	211
Geology (Three Terms)	13 Oct., 4 p.m.	Prof. Geikie	4 +	212
Practical Class (Three Terms)	13 Oct., 2-4 p.m.	Prof. Geikie and Lecturers	4 4 ⁵	213
Geography (<i>see under History and Law</i>).	...	...	...	...
Anthropology and Prehistoric Archaeology	Dates to be announced.		Free.	...

IV. DEPARTMENT OF HISTORY AND LAW.

History, British	14 Oct., 11 a.m.	Prof. Lodge	4 4	216
History (Hons.—History of Europe, 1715-1815)	16 Oct., 10 a.m.		4 4	218
Constitutional Law and Constitutional History	15 Oct., 5 p.m.		4 4	219
Constitutional Law and Constitutional History (Hons.—British Constitution from 1688)	15 Oct., 4 p.m.	Prof. Millar	4 4	219
Ancient (Scottish) History (Honours Course)	14 Oct., 4 p.m.	Prof. Hume Brown	4 4 ⁶	220

Scottish History from 1513 . . .	21 Apr., 4 p.m.	H. W. Meikle, M.A., D.Litt.	2 2 ⁶⁷⁸	221
Paleography . . .	13 Oct., 4 p.m.	Prof. Hume Brown	2 2 ⁶⁹	220
Ecclesiastical History . . .	15 Oct., 11 a.m.		4 4	222
Ecclesiastical History (Honours)	19 Oct., 12 noon	Prof. J. Mackinnon	4 4	223
Ecclesiastical History (Advanced)	20 Oct.		2 2	224
Economic History . . .	14 Oct., 5 p.m.		4 4	190
Economic History (Honours)	14 Oct., 5 p.m.	J. F. Rees, M.A.	4 4	191
British History to 1307 (Hons. Half-Course)	14 Oct., 12 noon		2 2 ¹⁰	229
British History, 1485-1660 (Honours Half-Course)	21 Apr., 10 a.m.		2 2 ¹⁰	229
Britain in the 18th and 19th Centuries ¹¹	22 Apr., 10 a.m.	D. P. Heatley	1 1 ⁶	229
Political Science (Honours Half-Course)	13 Jan., 12 noon		2 2 ¹⁰	228
Political Science (Honours Half-Course)	21 Apr., 12 noon		2 2 ¹⁰	228
Politics (Elementary)	12 Jan., 12 noon		1 1 ⁶	229
Colonial and Indian History . . .	15 Oct., 9 a.m.	James Munro, M.A.	4 4	225
Colonial and Indian History (Honours)	14 Jan., 10 a.m.		4 4	227
Roman Law . . .	15 Oct., 9 a.m.	Prof. Mackintosh	4 4 ¹²	234
Public Law . . .	13 May, 9 a.m.		2 2	234
Mercurile Law . . .	15 Oct., 2 p.m.	Prof. Sir Ludovic J. Grant, Bt.	4 4	234
Banking (30 lectures: <i>Week and Day</i>)	15 Oct., 5 p.m.	Henry Aitken, K.C.	4 4	234
Banking (30 lectures: <i>Week and Day</i>)	14 Oct., 5 p.m.	Allan McNeil	1 1 ⁶	235
Classical Archaeology (Honours Course)	13 Oct., 3 p.m.	Prof. Baldwin Brown	4 4	230
Classical Archaeology (Honours Course)	14 Oct., 3 p.m.		4 4	150

¹ With Practical Class at the Royal Observatory, Blackford Hill, Friday, 5-7.

² Qualifying along with a Course in the Chemical Laboratory, for the examination in Chemistry.

³ Besides charge of 10s. for Laboratory Expenses.

⁴ Besides Garden Fee, 5s.

⁵ Besides charge of 5s. for Laboratory Expenses.

⁶ Five Shillings Entrance Fee for Non-matriculated Students (see page 85).

⁷ This Course, with the above, constitutes a full Ordinary Course in Scottish History, which may be taken after British History as a cognate subject (see page 135).

⁸ Free to students attending Ancient Scottish History Course during same academic year.

⁹ Free for both of Prof. Hume Brown's Courses, if taken in one year, £5, 5s.

¹⁰ Free for whole Course, if paid at the beginning of first Half, £3, 3s.

¹¹ MacKay Lectures. Free to Members of the History Classes.

¹² Fee for Autumn and Spring Terms. For full year, £5, 5s.

IV. DEPARTMENT OF HISTORY AND LAW—*continued*.

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees. See also p. 122.	See also page
Ancient History ¹ (Ordinary Degree Course).	13 Oct., 9 a.m. ²	{ A. F. Giles, M.A. }	{ £4 4 }	224
Ancient (Roman) History (Honours Half-Course)	13 Oct., 12 noon ²			151
Ancient (Greek) History (Honours Half-Course)	20 Apr., 12 noon ²			151
Geography	14 Oct., 4 p.m.	{ G. G. Chisholm, M.A., B.Sc. }	{ 4 4 }	214
Geography (Honours Course).	13 Jan., 3 p.m.			215
Military History	13 Oct., 3 p.m.			233

¹ Students reading for Honours in Classics or in History may take any of the three terminal sections of this Course *separately*, at a fee of £1, 1s. per term (as Introductory Half-Courses for Honours), as follows:—Autumn Term, Greek History, Sixth to Third Century B.C.; Spring Term, Roman Republic; Summer Term, Roman Empire to 300 A.D. Such attendance does not qualify for graduation (see pages 152 and 231).

² In Session 1915-16, the Ordinary Class will meet at 12, and the Honours Classes at 9.

³ See also Special Fees for Sections of the Course, under "Education in Military Subjects," page 233.

FEES FOR SECOND, THIRD, AND SUBSEQUENT ATTENDANCES, ETC.

1. *Full Ordinary or Honours Graduation Lecture Courses*:—Second attendance, £3, 3s.; third or subsequent attendances, £1, 1s. Second or subsequent attendances on Ordinary Celtic Class, if not taken for Graduation, £1, 1s.
2. Ordinary or Honours Graduation Half-Courses at £2, 2s., or other Courses (except Laboratory and Practical Courses) at that fee; second attendance, £1, 11s. 6d.; third or subsequent attendances, £1, 1s.
3. When fee for first attendance is less than £2, 2s., no reduction for second or subsequent attendances.
4. No reduction for Laboratory or Practical Courses.
5. Fee for attendance on a half Ordinary or half Honours Course, or for any part thereof, £2, 2s.

DAILY TIME-TABLE OF ARTS CLASSES.¹

ORDINARY COURSES.

9-10	10-11	11-12	12 1	1 2	2 3	3 4	4-5	5 6
Political Econ. Education. Mathematics (1st) Roman Law. Ancient History. Colonial & Indian History. Hebrew.	Latin. Chemistry (1st). Chemistry (2nd). Hebrew (Jun.) ²	Greek. Natural Philos. Ecclesiastical History. British History.	Moral Philos. (1st). Moral Philos. (2nd). Mathematics (2nd). Zoology. Politics (Elem.) ² (Spring). Ancient Philosophy ² (Summer).	Logic.	Botany. Public Law. Psychology. Geology (2nd) (2-4). Arabic (Jun.) ²	Astronomy. French (1st). French (2nd). Celtic (Adv.) ² Sanskrit. Arabic. Fine Art. Military Hist.	English (1st). English (2nd). German (1st). German (2nd). Celtic (1st and 2nd). Geology (1st). Geography. Scottish Hist.	Constit. Law & Constit. Hist. Economic Hist. Mercant. Law.

HONOURS COURSES.

Autumn and Spring.

Dynamics (Autumn). Heat (Spring).	Greek. Hebrew. Mathematics (Advanced). Applied Math. History. Moral Philos. Colonial and Indian Hist. (Spring and Summer).	Latin. Ancient Philos. Logic (Advanced) (Spring). Polit. Economy. Education (Advanced). ² Mathematics (Intermediate). Electricity (Spring).	Electricity (Autumn). Dynamics (Advanced) (Spring). Physical Optics. Ecclesiastical Hist. Political Science (Spring). History (Mr Heatley). Ancient (Roman) History.	English Lit.	English Lang. English Liter. (Mr Webster). Metaphysics (Advanced). Geography. Econ. History.	French. Arabic. Psychology. Constitutional History. Scottish Hist.	Classical Archæology. Banking. ²
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Summer.

Quaternions. Exp. Physics (Intermediate). Roman History (Introductory). ³	Greek. Exp. Physics (Final). History (Mr Heatley). Moral Philos.	Latin. Mathematics (Intermediate). Func. Theory. Ecclesiastical Hist. (Adv.) ²	Political Science. Ancient (Greek) History		Statistics.	
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¹ For hours at which Practical Classes are held, see under "Courses of Instruction."

² Non-Graduation.

³ See p. 120, Note 1.

MATRICULATION.

Matriculation consists in paying annually an entrance fee to the University, and in inscribing the name in the Students' Album.

The Matriculation Fees are :—

For the Academic Year, 1st October to 1st October . £1 1 0

For the Summer Session only, 1st April to 1st October . 0 10 6

Note.—Candidates for Examination or for Graduation must pay the £1, 1s. Fee, unless previously matriculated for the whole year.

Entrance Fee in lieu of Matriculation for each of certain Courses, *specified in the foregoing Programme of Classes*, when not taken for Graduation . . . £0 5 0

Payment of this fee does not entitle a Student to a Class Certificate, nor confer any other University privilege.

CLASS FEES IN THE FACULTY OF ARTS.

All students who began their curriculum in any academic year before 1912-13 continue to pay the normal class fees as they have been fixed hitherto (see Programme of Classes, pages 114-120).

All students who began their curriculum in the academic year 1912-13, or any subsequent year, and who intend to pursue a regular course with a view to graduation in Arts, pay an Inclusive Fee in place of the fees for separate classes.

The Inclusive Fee for the curriculum for the Ordinary M.A. Degree is thirty guineas, payable in three annual instalments of ten guineas each.

The Inclusive Fee for the curriculum for the Honours M.A. Degree is forty guineas, payable in four annual instalments of ten guineas each.

The Inclusive Fee for the curriculum for the combined Degrees of M.A. and B.Sc. (in Pure Science), Agriculture, Engineering, and Forestry is seventy-five guineas, payable in three annual instalments of twenty guineas and a fourth instalment of fifteen guineas.

The Inclusive Fee for the curriculum for the combined Degrees of M.A. and LL.B. is fifty guineas, payable in five annual instalments of ten guineas each.

The Inclusive Fee for the curriculum for the combined Degrees of M.A. and B.L. is forty-five guineas, payable in four annual instalments of ten guineas each, and a fifth instalment of five guineas.

All fees, whether instalments of an Inclusive Fee or normal class fees, are payable before attendance on classes begins.

No student who began his curriculum in the academic year 1912-13, or any subsequent year, will be admitted to a degree examination in any year,

until he has paid in full the instalment, if any, of the Inclusive Fee payable in respect of that year and of every preceding year of his curriculum.

No student who began his curriculum in the academic year 1912-13, or any subsequent year, will be admitted to graduation until the whole of the Inclusive Fee has been paid.

The above Inclusive Fee will admit to all classes which are necessary or desirable as parts of a curriculum leading to the M.A. Degree, and are approved as such by the Official Advisers, subject to the consent of the Dean of the Faculty.

A student may attend a non-graduating class, or any class in addition to those approved as necessary or desirable parts of a curriculum leading to the degree, on payment of the normal class fee.

A student who has attended a class or classes which did not qualify for graduation, and has subsequently obtained leave to count such attendance as qualifying, shall be allowed to deduct the fees paid for such classes from the first annual instalment of his Inclusive Fee.

The Inclusive Fee for the Ordinary Degree of M.A. will not cover second attendance at any laboratory or practical class: it will cover second attendance at one other class, but it will not cover a third or subsequent attendance at any class. The fees for such second or subsequent attendances remain as before (see page 120).

A student who has paid one or more of the annual instalments of the Inclusive Fee at one Scottish University, and completes his curriculum in this University, shall be required to pay the remainder of the annual instalments to this University, and these shall cover admission to such classes as may be approved by the Official Advisers and the Dean as necessary or desirable to complete his curriculum for the Degree; provided always (1) that the amount of at least one annual instalment shall be paid to this University; (2) that before he receives his Degree therein, he shall present evidence that he has paid in all an amount equal to the Inclusive Fee; and (3) that the number of classes taken in this University shall be proportionate to those instalments of the Inclusive Fee which are paid to this University.

A student who presents a certificate that he has attended a course of instruction qualifying for graduation in Arts, given in a recognised University or Institution, or by a recognised extra-academical teacher, shall be entitled to a deduction from the last instalment of his Inclusive Fee of the amount paid for such course of instruction, being not in excess of the amount of the normal fee for the corresponding course given in the University, provided always that he has not already attended the latter course as part of his curriculum in this University.

For Regulations as to payment of Class Fees by Carnegie Trust, see APPENDIX.

ENTRY INTO CLASSES IN THE FACULTY OF ARTS.

Every person who enters a class-room on the opening day of any Course in the Faculty of Arts must present to the Servitor in charge—

A Class Ticket, or the corresponding counterfoil from the Fee Office ;

Or a Pass from one of the Official Advisers ;

Or a Pass signed by the Professor or Lecturer giving the Course ;

Or a Pass from the Secretary of the University Court ;

Or, in the case only of students whose selection of classes for the year is conditional on results of the Autumn (Sept.-Oct.) degree examinations, a Permit for the opening days of classes, obtainable at the Matriculation Office.

Any student who begins to attend after the opening day must give a satisfactory excuse for his late entry. No Professor or Lecturer will in any term admit a student to a Qualifying Course in Arts more than two weeks after the advertised day of opening without the express permission of the Faculty.

Note.—Any Introductory Lecture which is open to the general public will be specially advertised, or otherwise announced. When such Lecture is given on the first day, the opening day for the purpose of the above Regulations will be the second day on which the Class meets.

For conditions regarding entry to the ORDINARY CLASS OF LATIN, see page 144.

OFFICIAL ADVISERS.

(Mr HEATLEY, Dr KNOTT (see IV., below), and Mr MILL.)

I. Graduation Students entering on their First Year.

Intending Students who have completed the Preliminary Examination and propose to enter the Faculty of Arts in October 1914, are requested to apply to the Clerk, Matriculation Office, for a copy of the "Schedule of Information for the Official Advisers in the Faculty of Arts." This Schedule must be filled up and returned to the Clerk, Matriculation Office, not later than 1st October 1914.

Every Graduation Student of the first year should consult the Official Advisers, between the following dates, if possible :—5th October to 12th October (Saturday excluded), from 9.30 A.M. to 1.30 P.M. ; and should obtain (1) their approval of his proposed curriculum as a whole, and (2) an Official Advisers' Pass to be presented at the Class-Fee Office for the classes to be taken during the academic year 1914-15.

II. Graduation Students already in Attendance.

Graduation Students who are finishing their first year, and students of other years than the first, should consult the Official Advisers during the last fortnight of the Summer Term, and obtain from them passes for their classes for the next academic year.

Students who, owing to the necessary examinations not having been passed, have postponed the fixing of their classes for 1914-15 may consult the Official Advisers daily (Saturday excepted) between 2.30 P.M. and 4.30 P.M. from 5th October to 12th October 1914.

III. Non-Graduating Students.

Students not studying for a Degree are also required to fill up the Schedule of Information, and may consult the Official Advisers. If they do not desire to consult them, they should write on the top of the Schedule "Non-Graduation," in which case the pass will be forwarded to the Fee Office the day after the Schedule has been filled up and handed in to the Clerk at the Matriculation Office.

With the exceptions stated below—IV.—students whose surnames begin with the letters A-L should in the first instance consult Mr Heatley (Conveyancing Retiring Room), and with the letters M-Z, Mr Mill (Latin Retiring Room).

IV. Candidates for Honours in Mathematics, and Arts Students who are also Science Students.

Candidates for Honours in Mathematics and Natural Philosophy, and Arts Students who are also, or intend to become, students in the Faculty of Science, should consult Dr Knott (Applied Mathematics Retiring Room, Physical Laboratory, Drummond Street), during the periods stated above (excepting Wednesday), from 9.30 to 12.30, and from 2 to 4.

GENERAL ADVICE TO STUDENTS REGARDING CURRICULA, ETC.

1. Every Student intending to graduate in Arts is advised to make himself familiar with the Regulations before commencing his Course. In particular, he should make sure, in the first place, that he has complied with all the conditions of the Preliminary Examination. He should then choose a Curriculum to suit his requirements; see that it satisfies the regulations, and is approved by the Official Advisers; that he has all the qualifications necessary for entering the classes selected; that his studies are spread over the required number of years; and that in the subjects of any one year there will be no clashing between the dates of examinations (see p. 238).

2. Honours Students, and students studying for special examinations, should, as early in their Course as possible, consult the Professors of the Special Subjects which they are to study. Students who desire to obtain information or advice with regard to the India or Home Civil Service, or other posts in the public service, should apply to the Conveners of the Appointments Committee (Professors Hardie and Lodge), or to the Official Advisers (see also APPENDIX).

3. For special and detailed advice as to each subject, students may consult the several Professors or Lecturers *before entering upon their Curricula*. In particular, those who intend proceeding afterwards to Degrees in Divinity, Law, Medicine, Science, or Music, should, in cases of doubt, consult the Deans of these Faculties as to the most appropriate Arts Curriculum.

Students who do not intend to graduate in Arts may attend any of the Classes on payment of the Matriculation and the Class Fees, without having passed any Preliminary Examination. Those who wish their Classes to count for Graduation must pass the Preliminary Examination.

With the exception of the Class of Zoology, all the Classes in the Faculty are open to Women. Provision has, however, been made to admit Women to Graduation in Arts who have received the requisite instruction in that subject from Lecturers specially recognised for that purpose.

The Matriculation Fees (see page 122) are payable in the Matriculation Office.

For Regulations as to payment of Class Fees by Carnegie Trust, see APPENDIX.

GRADUATION IN ARTS.

N.B.—These Regulations are set forth in Ordinance No. 11 of the University Court of the University of Edinburgh.

ACADEMICAL YEAR.

I. The academical year shall commence on the first day of October. It shall include at least twenty-five teaching weeks, and shall be divided into three periods. The days on which classes shall open and close in each period shall be determined by the Senatus with the approval of the University Court. For the purpose of reckoning duration of study in any subject, an academical year shall be constituted by attendance on at least one course of study in each of the three periods aforesaid, but it shall be in the power of the Senatus, with the approval of the University Court, to accept attendance on at least one course of study in each of two of the periods aforesaid, as completing an academical year.

II. The Curriculum for the degree of Master of Arts (M.A.) shall extend over not less than three academical years.

Preliminary Examination.

III., IV., V.—See earlier section, pages 85 to 104.

Ordinary Degree.

VI. The Curriculum for the Ordinary Degree shall consist of five subjects, of which two subjects shall each be studied for two academical years; and the Degree Examinations in these two subjects shall be on a higher standard than the Degree Examinations in the other three subjects; provided that it shall be in the power of the Senatus, with the approval of the University Court, to reckon courses in two cognate subjects (and, wherever so determined by the Senatus and University Court, studied in separate academical years) as two courses in one subject; the Examinations in the cognate subjects being on the same standard as if each of the subjects had been taken in a single course.

VII. (1) Each of the subjects must be studied in a full course, but two half-courses in one subject or in two cognate subjects, or a qualifying Honours course as hereinafter defined, may be held to be equivalent to a full course in one subject in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose by the same authority.

(2) A full course shall consist of not less than seventy-five meetings of the whole class on separate days, with additional meetings for tutorial or other supplementary instruction where such is provided; but the Senatus, with the approval of the University Court, may, in special cases, having regard to the nature of the subjects, sanction full courses of less than seventy-five meetings of the whole class, with additional meetings for tutorial or other supplementary instruction.

A half-course shall consist of not less than forty meetings of the whole class on separate days, with additional meetings for tutorial or other supplementary instruction where such is provided; but the Senatus, with the approval of the University Court, may, in special cases, having regard to the nature of the subjects, sanction half-courses of less than forty meetings of the whole class, with additional meetings for tutorial or other supplementary instruction.

(3) Where a subject is taught in a practical class, as well as in a systematic class, the Senatus, with the approval of the University Court, shall regulate the course of study and determine the relative proportion of lectures and laboratory or practical work.

VIII. The Departments of Study for graduation in Arts with or without Honours shall include the following subjects, with such additions or modifications as may hereafter be made by the Senatus, with the approval of the University Court; provided always (1) that no subject shall be included unless a qualifying course shall have been established therein; and (2) that the University Court shall communicate to the General Council all such additions and modifications relating to the definition and grouping of the subjects of the several Departments of Study, their selection for the Curriculum, and their classification as cognate; and any representation made thereon by the General Council within two months from the date of such communication shall be taken into consideration by the University Court before any such addition, modification, selection or classification is approved:—

1. *Language and Literature.*

Latin.	Spanish.
Greek.	Sanskrit.
English.	Hebrew.
French.	Arabic.
German.	Syriac.
Italian.	Celtic.

2. *Mental Philosophy.*

Logic and Metaphysics.	Education (Theory, History and Art of).
Moral Philosophy.	Philosophy of Law.
Political Economy.	

3. *Science.*

Mathematics.	Zoology.
Natural Philosophy.	Botany.
Astronomy.	Geology.
Chemistry.	Geography.

4. *History and Law.*

History.	General Jurisprudence.
Archæology and Art (History of).	Roman Law.
Constitutional Law and History.	Public International Law.
Ancient (Greek and Roman) History.	International Private Law.
	Geography.

IX. The Senatus, with the approval of the University Court, shall have power to make from time to time regulations regarding the definition and grouping of the subjects in each of the Departments of Study, the selection of subjects for the Curriculum, their classification as cognate, and the order in which they are to be studied, and also regarding the standards of the Degree Examinations and the conditions of admission thereto.

X. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance and who have passed the necessary examinations, shall be entitled to receive the ordinary Degree of Master of Arts on payment of the fees required, and shall receive a Diploma wherein shall be set forth the subjects in which they have passed.

Degree with Honours.

XI. (1) The Degree of Master of Arts may be taken with Honours in any group (consisting of a subject or subjects) in which Honours classes, conducted by at least two separate Professors or Lecturers, have been established.

(2) Subject to the provision specified in Section VIII. (2) hereof the Senatus, with the approval of the University Court, shall have power to make from time to time regulations regarding the definition and grouping of the subjects in each of the recognised groups, the selection of subjects for the Curriculum, their classification as cognate, and the order in which the subjects are to be studied, and also regarding the standard of the Honours Examinations and the conditions of admission thereto.

(3) Every candidate shall take up at least two subjects outside his Honours Group.

(4) Every candidate shall attend seven classes, taking at least four classes (two of which at least shall be Honours classes under separate Professors or Lecturers) in his Honours Group.

(5) A candidate who has obtained Honours in any one group may, under such regulations as may be laid down from time to time by the Senatus, with the approval of the University Court, present himself again for examination in a second Honours Group. In such a case, if the two groups do not overlap, he shall not be required to take any subject or class outside his Honours Groups.

(6) The examination in the subjects comprised in the candidate's Honours Group or Groups shall be of a higher standard than that required for the ordinary Degree of Master of Arts. In his other subjects the standard shall be that required for the ordinary Degree.

(7) The provisions of Section VII. of this Ordinance shall apply to candidates for Honours ; but, in their case, not fewer than fifty meetings of the whole class, on separate days, extending over at least two periods of the academical year, shall constitute a full course for an Honours class ; and not fewer than twenty-five meetings of the whole class on separate days, extending over at least one of the periods of the academical year, shall constitute a half-course ; and two half-courses so sanctioned shall be held to be equivalent to a qualifying Honours course in such cases as the Senatus, with the approval of the University Court, may determine, and

under such regulations as may from time to time be made for that purpose by the same authority.

XII. Where a subject is taught in a practical class, as well as in a systematic class, the Senatus, with the approval of the University Court, shall regulate the course of study, and determine the relative proportion of lectures and laboratory or practical work.

XIII. (1) In each group there shall be three grades of Honours, to be denominated respectively the First, Second, and Third Class. The names of the candidates entitled to Honours in each class shall be arranged in alphabetical order.

(2) For the Degree of Master of Arts with Honours the graduates shall receive a Diploma setting forth the subjects in which he has passed with Honours, and those in which he has passed in the standard required for the Ordinary Degree.

(3) A candidate for the Degree of Master of Arts with Honours, who has failed to be placed in any class, may, provided that in the opinion of the Examiners he has given evidence of sufficient attainments in any subject for the ordinary Degree of Master of Arts, receive from them a certificate of having passed in such subject, which shall count *pro tanto* as part of the examination required under the regulations for the ordinary Degree of Master of Arts.

Boards of Studies.

XIV. The Senatus shall from time to time institute Boards of Studies corresponding in general to the Departments of Study or to any two or more of such Departments enumerated in Section VIII. of this Ordinance.

XV. Each Board of Studies shall consist of such Members of the Senatus and Lecturers in the University as the Senatus may from time to time select, and the S. natus shall appoint one of the Members of the Board to be Convener thereof.

XVI. In the course of each academical year each Professor and Lecturer in each of the said Departments of Study shall submit to the proper Board of Studies for its approval (*a*) a syllabus of the subjects and books proposed for the work of his class for the next academical year; and (*b*) a syllabus of the subjects and books to be prescribed for the Examinations for the Ordinary Degree of Master of Arts in the next academical year, and also for the Honours Examinations in the academical year next but one. As soon as such approval has been given, each syllabus shall be transmitted to the Faculty of Arts for its consideration. Each syllabus, with such observations as the Faculty of Arts may see fit to make thereon, shall then be transmitted to the Senatus for its sanction.

XVII. Each Board of Studies shall in like manner make recommendations through the Faculty of Arts to the Senatus in regard to the Honours courses which may be sanctioned under the provisions of this Ordinance, and the lectures which may be given on special subjects.

XVIII. The Principal and the Dean of the Faculty of Arts shall be *ex officio* members of each Board of Studies. The convener shall preside, and,

in his absence, each meeting shall appoint its own chairman, and every chairman shall have a deliberative, and, in cases of equality, a casting vote.

General.

XIX. A candidate for the Degree of Master of Arts shall not be deemed to have attended a class as part of the Curriculum for that Degree who does not present a certificate bearing not only that he has regularly attended the class, but also that he has duly performed the work thereof.

XX. A student, who has given attendance at classes recognised as qualifying for graduation in Arts during one or more academical years in any one or more of the other Scottish Universities, may complete his curriculum by giving attendance during the remainder of his course in the University of Edinburgh, and may proceed to a Degree in that University, in the same way, in all respects, as if the previous part of his Curriculum had been taken therein; provided always that no such student shall be admitted to a Degree in the University of Edinburgh unless he has attended qualifying classes therein during the whole of the last academical year of his Curriculum. Further, the Senatus may accept, under such conditions as they may from time to time prescribe, attendance at other Universities specially recognised by the University Court, and the examinations passed therein, provided always that every student whose attendance or examinations are thus accepted, shall attend qualifying classes for at least two academical years in the University of Edinburgh, and shall pass the examinations of that University in the subjects studied therein.

(See Regulations under this Clause on following page.)

XXI. The Degree of Master of Arts shall in no case be conferred on persons who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causâ tantum*; but the Senatus shall have power to admit (*ad eundem gradum*) to the Degree of Master of Arts any person who has already received that Degree from another University recognised by the University Court; provided that he is of distinguished merit or has been appointed to an academic office in the University of Edinburgh.

XXII. Students may attend any classes without having passed the Preliminary Examination within the meaning of this Ordinance, but such attendance shall not qualify for graduation.

XXIII. From and after the date at which this Ordinance comes into operation, Ordinances numbered 12, 14, 18, and 69 of the Commissioners under the Universities (Scotland) Act, 1858, as altered under the provisions of the said Act, and Ordinances Nos. 11, 44, 148, 160, and 168 of the Commissioners appointed under the Universities (Scotland) Act, 1889, the first clause of Section III., Sub-section (1) of their Ordinance No. 18, and Ordinance General No. 1. of the University Courts of the Scottish Universities are hereby repealed, as regards the University of Edinburgh, in so far as they are inconsistent with this Ordinance; and any references made in existing Ordinances applicable to the University of Edinburgh to the said repealed Ordinances or Sub-section shall be deemed to refer to this

Ordinance and the corresponding Sections and Sub-sections thereof; provided always that a student who, at the aforesaid date, has already commenced his course of study with a view to graduation in Arts in any of the Scottish Universities under the regulations in force at the time in such University, may complete his course and become a candidate for the Degree of Master of Arts with or without Honours at the University of Edinburgh, in conformity with such regulations.

REGULATIONS for Admission under Clause XX. of Students from Non-Scottish Universities, made by the Senatus, with the approval of the University Court.

Regulations.

1. When a University recognised by the Court has an Intermediate Examination an applicant from such University, who has attended that University for not less than a year and has passed such Intermediate Examination, may be exempted from one year's attendance at this University; he may also be exempted from attendance on two courses for the Ordinary Degree, in two subjects which he may select from among the subjects already studied in the recognised University: provided always that the Faculty of Arts is satisfied that the standard in the subjects studied is sufficient.

2. An applicant who has taken a Degree at any University recognised by the Court shall be exempted from one year's attendance at this University; he may also be exempted from the necessity of passing in two of the subjects for the Ordinary Degree, which he may choose from among the subjects passed in the recognised University: provided always that the Faculty of Arts is satisfied that the standard in the subjects passed is sufficient.

Universities Recognised.

All English Universities; Ireland—Trinity College, Dublin; Canada—McGill, Toronto, Dalhousie, Kingston, Manitoba; Australia—Melbourne, Sydney, Adelaide; New Zealand—University of New Zealand; South Africa—University of the Cape of Good Hope; India—Bombay, Calcutta, Madras, Punjab, Allahabad; United States of America—Harvard, Yale, New York, Princeton, Johns Hopkins, Cornell, Michigan, Chicago, Columbia (New York), Pennsylvania, Wisconsin, California, Leland-Stanford, Illinois; Japan—Imperial University.

Note.—Every applicant must send in a certificate (the printed form for which is issued by the Matriculation Office) by the Registrar (or other authority) of the University from which he comes, certifying that he has duly completed at least one year's attendance at the University in question, and has passed an Intermediate Examination or otherwise satisfied the authorities of that University that he has made progress corresponding to at least one full year of University study after completing the necessary Preliminary Qualification.

Every student admitted under these Regulations must study in the University of Edinburgh for two full academic years, and must enter at the opening of the Autumn Term in October. As the verification of standards often takes some time, consideration of the application cannot be guaranteed unless it is sent in at least four months before the commencement of the academic year : and in all cases the above-mentioned certificate must be in the hands of the Dean of the Faculty of Arts before the opening day of the Autumn Term.

ADDITIONAL REGULATIONS made by the Senatus, with the approval of the University Court, under Sections VI., VIII., IX., and XI. of the Court's Ordinance No. 11 [Regulations for Degrees in Arts].

Ordinary Degree.

I. DURATION OF COURSES.

Except in cases where the University Court has approved of qualifying courses extending over two periods only, courses qualifying for the Ordinary Degree extend over three periods of the academical year,¹ hereinafter called terms ; but the Senatus, with the approval of the University Court, may grant exemption from one term to students who may show good cause for the same, after such test as the Faculty may approve.

II. SUBJECTS AND DEPARTMENTS OF STUDY.

The following are the subjects at present recognised in the four Departments of Study in which qualifying classes are established :—

1. *Language and Literature.*

English.	German.
Latin.	Sanskrit.
Greek.	Hebrew.
Celtic.	Arabic.
French.	

2. *Mental Philosophy.*

Logic and Metaphysics.	Political Economy.
Psychology.	Education (Theory, History,
Moral Philosophy.	and Art of).

3. *Science.*

Mathematics.	Zoology.
Natural Philosophy.	Botany.
Astronomy.	Geology.
Chemistry.	Geography.

¹ Autumn, Spring, and Summer Terms.

4. *History and Law*.¹

History.	Ancient (Greek and Roman)
Archæology and Art (History of).	History.
Constitutional Law and Constitutional History.	Military History.
Economic History.	Roman Law.
	Public Law.
	Mercantile Law.
	Geography.

III. DOUBLE COURSES.

By a Double Course is meant the study of a subject for two separate academical years, or the study of two cognate subjects in accordance with Section VI. of the foregoing Ordinance.

Except in the cases in Group (c) *infra*, or in individual cases where the Senatus, with the approval of the University Court, has, for cause duly shown, decided otherwise, the two courses in a Double Course shall not be taken in the same academic year; and, except in such cases, a student shall not be allowed to attend the Second Course of the Double Course before he has passed the M.A. Examination in the First Course, or has satisfied some test recognised by the Faculty of Arts, with the approval of the Senatus, as equivalent thereto.

The following Double Courses are recognised :—

(a) *Double Courses in a Single Subject to be Studied for Two Separate Academical Years—*

English.	Hebrew.
Latin.	Moral Philosophy.
Greek.	Mathematics.
Celtic.	Natural Philosophy.
French.	Chemistry.
German.	Botany.
Sanskrit.	Geology.

(b) *Double Courses in Cognate Subjects to be Studied for Two Separate Academical Years—*

English, with Latin, Greek, French, German, Celtic, or Sanskrit.
 English, with British History.
 Latin, with French or Celtic.
 Latin, followed by Roman Law.
 Greek, with Sanskrit.
 Latin or Greek, followed by Ancient History.
 French, with German or Celtic.
 Hebrew, followed by Arabic.

Psychology, followed by Education.

Political Economy, with Economic History, Geography, or Mercantile Law.

¹ Ecclesiastical, Scottish, and Colonial and Indian History only count as graduation subjects when taken after British History.

Mathematics, followed by Natural Philosophy, Chemistry, or Astronomy.

Natural Philosophy, with Chemistry.

Any two of Botany, Zoology, Geology.

Botany, with Chemistry or Natural Philosophy.

Geology, followed by Geography.

British History, followed by Constitutional, Economic, Ecclesiastical, Scottish, or Colonial and Indian History, or History of Art.

Geography, followed by History or Economic History.

Geography, with Military History.

Ancient History, followed by Ecclesiastical History.

(c) *Double Courses in Cognate Subjects to be Studied in the same Academical Year or in Two Separate Academical Years*—

Latin, with Greek.

Logic and Philosophical Introduction, with Psychology.

Logic and Philosophical Introduction, with Moral Philosophy.

Psychology, with Moral Philosophy.

Moral Philosophy, with Political Economy.

Ancient History, with British History.

IV. RESTRICTIONS ON THE CURRICULUM.

Every Curriculum admitted for Ordinary Degree must embrace subjects taken from at least three out of the four Departments of Study enumerated in No. II. of these Additional Regulations—Geography to be reckoned for the present purpose as a subject in the Department of History and Law.

Every student at the beginning of his first term must submit the subjects which he proposes for his Curriculum, and at least a provisional order of study, for the approval of the Official Advisers, who act under the control of the Faculty.

Any subsequent alteration of the Curriculum must be submitted to the Official Advisers and the Dean.

V. DEGREE EXAMINATIONS.

In each subject for the Ordinary Degree there are two Degree Examinations in the academic year.

Degree with Honours.

I. HONOURS GROUPS.

The following are recognised as Groups in which the Degree of M.A. can be taken with Honours:—

(a) Classics (*i.e.* Latin and Greek, with special subjects, such as Comparative Philology, Ancient Philosophy, Classical Archæology, and Ancient History—Greek or Roman).

(b) Mental Philosophy.

(c) Mathematics and Natural Philosophy.

- (d) English (*i.e.* Rhetoric and English Literature and Language).
- (e) Modern Languages and Literature.
- (f) History.
- (g) Economic Science (*i.e.* Political Economy, Economic History and Political Science, with an optional subject from Statistics and Mathematical Economics, Geography, Mercantile Law, and Palæography).
- (h) Latin and French.¹
- (i) Semitic Languages.

II. SUBJECTS OUTSIDE HONOURS GROUP.

The two subjects to be taken outside the candidate's Honours Group must be passed before the candidate proceeds to his Honours Examination, except in cases where the Senatus, on special cause shown, shall have consented to relax this regulation. With regard to the selection of the two subjects to be taken outside the candidate's Honours Group, the following restrictions are placed upon candidates :—

*Classics.*²—Candidates must take at least one subject not within the Department of Language and Literature.

Mental Philosophy.—Candidates must take at least one subject not within the Department of Mental Philosophy.

Mathematics and Natural Philosophy.—Candidates must take at least one subject not within the Department of Science.

English.—Candidates must take British History.

Modern Languages.—Candidates must take at least one subject not within the Department of Language and Literature.

*History.*²—Candidates must take Logic, Moral Philosophy, or Political Economy.

Economic Science.—Candidates must take British History.

Latin and French.—Candidates must take at least one subject not within the Department of Language and Literature.

Semitic Languages.—Candidates must take at least one subject not within the Department of Language and Literature.

III. ENTRY FOR HONOURS.

No candidate who has completed his Examination for Honours in any Group is allowed to present himself a second time for Honours in that Group.

A candidate for Honours in any Group must complete all the examinations required for Honours within five years from the date of his first matriculation after having passed the Preliminary Examination.

¹ The examination programme in these subjects is the same as given under "Classics" and "Modern Languages" respectively.

² Candidates for Honours in Classics or in History may not count Ancient History (Ordinary Course) as a qualifying subject outside the Honours Group. See footnote 1, page 120.

A candidate who has obtained Honours in any one Group may present himself for Honours in a second Group, provided all the examinations required for Honours in both Groups, in accordance with Section XI. (5) of the foregoing Ordinance, are completed within six years from the date of his first matriculation after passing the Preliminary Examination.

The usual period of five (or six) years within which a candidate must take Honours may be extended by the Senatus on the recommendation of the Faculty of Arts in any individual case where special cause has been shown.

When the usual period of five (or six) years has been extended, unless the Faculty of Arts expressly decide otherwise, the number of years allowed for extension shall be noted on the candidate's diploma, and also mentioned in the record in the CALENDAR.

When the usual period of five (or six) years has been extended, it is a condition that the eligibility of the candidate for University Prizes, Bursaries, Fellowships, or Scholarships shall be affected as follows :—

- (a) Where the condition for eligibility is the possession of an Honours Degree *simpliciter*, the candidate shall not be eligible.
- (b) Where eligibility is confined to a period subsequent to graduation with Honours, the period of eligibility shall be diminished by the number of years granted for extension.

IV. HONOURS EXAMINATIONS.

In each Honours Group there is one Honours Examination in each academical year.

GRADUATION OF WOMEN.

I. It is in the power of the University Court to admit women to graduation.

II. The conditions for graduation are the same for women as for men, subject to the following modification, which has effect until provision is made for the instruction of women in all subjects qualifying for graduation in which provision is made for the instruction of men :—

So long as within the Faculty provision is not made for the instruction of women in any subject qualifying for graduation in which provision is made for the instruction of men, it is in the power of the University Court to admit to graduation women who have received the requisite instruction in that subject in any Scottish University, or from any teacher or in any Institution, within the University town, recognised for the purposes of graduation by the University Court; provided always that every candidate for graduation produces evidence of having satisfied the conditions with respect to the Preliminary Examination, and be examined in all the subjects necessary for graduation by the Examiners of the University.

III. So soon as within the University provision is made for the instruction of women in all subjects qualifying for graduation in which

provision is made for the instruction of men, the conditions for the graduation of women shall be the same as the conditions for the graduation of men.

IV. (1) Women who may attend classes in the University must matriculate, paying a fee of the same amount as that exigible for other students. (2) Women, who are candidates for graduation but not matriculated students, and who may attend classes within a University town, under the provisions of Section II. (2) hereof, must, at the commencement of each year of such attendance, enrol their names in a book to be kept in the University for that purpose, paying a fee of the same amount as the matriculation fee paid by students of the University, and having, in respect of such payment, a right to the use of the Library of the University.

Additional Regulations by the University Court.¹

Any woman who has received the requisite instruction in Zoology in any Scottish University, or under any Teacher recognised for the purpose by the University Court, will (subject to the provisions of Ordinance No. 18, General No. 9, Regulations for the Graduation of Women, etc.) be admitted to examination in that subject for graduation in Arts. Women may attend within the University the advanced courses in Zoology.

REGULATIONS FOR SPECIAL STUDY AND RESEARCH, FOR APPOINTMENT OF RESEARCH STUDENTS AND FELLOWS, ETC.

I. It is in the power of the Senatus Academicus, with the approval of the University Court, to make regulations under which graduates of Scottish Universities, or of other Universities recognised by the University Court for the purposes hereof, or other persons who have given satisfactory proof of general education and of fitness to engage in some special study or research, may be admitted to prosecute such study or research in the University.

II. It is the duty of the Senatus Academicus—

- (1) To receive and decide upon all applications for admission to prosecute special study or research.
- (2) To prepare a list of all persons so admitted (hereinafter referred to as Research Students).
- (3) To make regulations for the supervision of their work.
- (4) To satisfy themselves from time to time that the Research Students are carrying on their work in the University in a satisfactory manner.
- (5) To suspend or exclude from any course any student whose conduct or progress is unsatisfactory.

¹ See Ordinance, Appendix to CALENDAR, 1892-93, page 51.

III. Every applicant for admission must send in to the Senatus Academicus a written application stating any degree or other distinction which he has already obtained, the line of study or research which he wishes to prosecute and the probable period of its duration, together with evidence as to his character, capacity, and general qualifications.

IV. An application for admission is in the first instance referred by the Senatus to the appropriate Faculty, or to a Committee appointed by the Senatus; one member of the Committee shall always be a Professor or Lecturer within whose department the proposed line of study or research falls. No applicant shall be recommended by the Faculty or the Committee who has not satisfied them by examination or otherwise that he is qualified to prosecute the proposed line of study or research, and further—

- (a) That his proposed line of study or research is a fit and proper one;
- (b) That he possesses a good general education;
- (c) That he is of good character;
- (d) That he proposes to prosecute his studies or research during a period to be approved by the Senatus.

The Faculty or the Committee shall make a report to the Senatus upon each application. It is also their duty, subject to the regulations of the Senatus, to provide for the supervision of the Research Student's work, and to report at least once a year to the Senatus as to his progress and conduct. The Senatus shall then determine whether he shall remain a Research Student.

V. Every Research Student is required to matriculate each year, paying the ordinary fee.

VI. Research Students have access to and the use of the University Laboratories and Museums, under such conditions as to payment and otherwise as the University Court, after consultation with the Senatus, may determine.

VII. The title of Research Fellow may be conferred by the Senatus, with the approval of the University Court, on Research Students who have shown special distinction. Such title shall not of itself confer any right to stipend, but it shall be in the power of the University Court to provide a stipend of such amount and for such period as it may think fit to any Research Fellow under the powers of Section XI., Sub-section 8, of Ordinance 27.

VIII. (1) The Research Fellows shall be appointed as aforesaid, after consideration of the report or reports submitted in terms of Section IV. hereof.

(2) The title of Research Fellow may be conferred either at the commencement of the Research Student's course of study or research, or at any time during its progress, as the Senatus may determine.

(3) Research Fellows shall retain their title and stipend, if any, for the period during which they are engaged in special study or research in the University, and no longer.

- (4) Research Students who have been appointed Research Fellows shall continue to be subject to the conditions above prescribed as to the supervision of their work and the reports to be made thereon.

IX. Nothing herein contained shall prejudice the right of Research Students to such Fellowships, Scholarships, or Prizes as may be open to them by Ordinance or Deed of Foundation.

X. The University Court may, subject to the provisions of Section XI., Sub-section 8, of Ordinance 27, provide such sums as it may think fit in aid of the expenses of Special Study or Research.

REGULATIONS by the University Court, of date 17th June 1907, with regard to Fees payable by Research Students and Fellows, and Carnegie Fellows and Scholars who engage in Research in the University Laboratories.

Research Students and Fellows under Ordinance of the Scottish Universities' Commissioners (1889) No. 61 (General No. 23), and Carnegie Fellows and Scholars who make use of Laboratories for purposes of Research, if not already matriculated, are required to pay a fee equal in amount to the Matriculation Fee for each Academical year in which research is prosecuted.

Persons engaged in Research shall not be required to pay the ordinary Laboratory Fees, but they shall pay any special expenses incurred in connection with their work. Should they attend courses of Laboratory Instruction required for further graduation, they shall pay the full Laboratory Fees.

**REGULATIONS FOR HIGHER DEGREES IN
ARTS AND SCIENCE.**

Degree of D.Sc.

I. Graduates who have taken the degree of Master of Arts in the University of Edinburgh with first or second class honours under the conditions prescribed by the Regulations for Degrees in Arts, or under the Regulations previously in force therein, or who have taken a degree in any Scottish University which the Senatus shall hold to be equivalent to such degree with honours as aforesaid, may offer themselves for the degree of Doctor of Science (D.Sc.) in the University of Edinburgh under the same conditions as if they held the degree of Bachelor of Science, and after the expiry of the same period from the date of such graduation as is required in the case of Bachelors of Science of that University.

II. Research Student, within the meaning of the Regulations for the Encouragement of Special Study and Research and for the appointment of Research Fellows, may offer themselves for the degree of D.Sc. of the University in which they have prosecuted some special study or research

under those Regulations, although they have not taken the degree of B.Sc. or the degree of M.A. with honours as aforesaid in that University; provided—

(1) That they hold the degree of B.Sc. or M.B. of a Scottish or any recognised University, or a degree of any such University, which the Senatus shall hold to be equivalent to the degree of B.Sc. or to the degree of M.A. with first or second class honours; provided that candidates who hold any such degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students with a view to the degree of D.Sc., to pass an examination equivalent to an Honours or to a Final Science examination in a group of subjects cognate to their line of work as Research Students.

(2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and that they produce evidence of satisfactory progress in the special study or research undertaken by them during that period.

III. All candidates for the degree of Doctor of Science shall satisfy the same conditions with respect to the presentation of a thesis or published memoir or work,¹ and to the passing of examinations as are required in the case of Bachelors of Science of the University of Edinburgh.

Degree of D.Phil.

IV. Graduates who have taken the degree of Master of Arts in the University of Edinburgh with first or second class honours under the conditions prescribed by the Regulations for Graduation in Arts, or under the Regulations previously in force therein, or who have taken a degree in any Scottish University which the Senatus shall hold to be equivalent to such degree with honours as aforesaid, may offer themselves for the degree of Doctor of Philosophy (D.Phil.) in the University of Edinburgh after the expiry of five years from the date of such graduation.

V. Research Students as aforesaid may offer themselves for the degree of D.Phil. of the University in which they have prosecuted some special study under Ordinance No. 61 [General, No. 23—Regulations for the Encouragement of Special Study and Research and for the appointment of Research Fellows], although they have not taken the degree of M.A. with honours as aforesaid in that University; provided—

(1) That they hold the degree of M.A. with first or second class honours of any Scottish University, or a degree of a Scottish or any recognised University, which the Senatus shall hold to be equivalent to such degree with honours as aforesaid; provided that candidates who hold such a degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students, with a view to the degree of D.Phil., to pass an examination equivalent to an honours examination in a group of subjects cognate to their line of work as Research Students.

(2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the

¹ The Thesis must be lodged and the fees paid on or before 31st December for the March Graduation, and on or before 1st May for the July Graduation.

degree, and produce evidence of satisfactory progress in the special study undertaken by them during that period.

(3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

VI. All candidates for the degree of D.Phil. shall present a thesis or a published memoir or work,¹ which shall be an original contribution to learning, to be approved by the Senatus on the recommendation of a Committee appointed by the Senatus; provided that, if required by the Senatus, a candidate shall also be bound to pass such examination, conducted orally or otherwise, on the subject of his thesis or of his special study as may from time to time be determined. The thesis, or memoir, or work shall be accompanied by a declaration signed by the candidate that it has been composed by himself. If the thesis has not already been published, it shall be published by the candidate in such manner as the Senatus shall approve.

Degree of D.Litt.

VII. Graduates who have taken the degree of Master of Arts in the University of Edinburgh with first or second class honours, under the conditions prescribed by the Regulations for Degrees in Arts, or under the Regulations previously in force therein, or who have taken a degree in any Scottish University, which the Senatus shall hold to be equivalent to such degree with honours as aforesaid may offer themselves for the degree of Doctor of Letters (D.Litt.) in the University of Edinburgh after the expiry of five years from the date of such graduation.

VIII. Research Students as aforesaid may offer themselves for the degree of D.Litt. of the University in which they have prosecuted some special study under Ordinance No. 61 [General, No. 23—Regulations for the Encouragement of Special Study and Research and for the appointment of Research Fellows], although they have not taken the degree of M.A. with honours as aforesaid in that University; provided—

(1) That they hold the degree of M.A. with first or second class honours of any Scottish University, or a degree of a Scottish or any recognised University, which the Senatus shall hold to be equivalent to such degree with honours as aforesaid; provided that candidates who hold such a degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students with a view to the degree of D.Litt., to pass an examination equivalent to an honours examination in a group of subjects cognate to their line of work as Research Students.

(2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and produce evidence of satisfactory progress in the special study undertaken by them during that period.

(3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

¹ The Thesis must be lodged and the fees paid before 1st March.

IX. All candidates for the degree of D.Litt. shall present a thesis or a published memoir or work,¹ which shall be an original contribution to learning, to be approved by the Senatus on the recommendation of a Committee appointed by the Senatus; provided that, if required by the Senatus, a candidate shall also be bound to pass such examination, conducted orally or otherwise, on the subject of his thesis or of his special study as may from time to time be determined. The thesis, or memoir, or work shall be accompanied by a declaration signed by the candidate that it has been composed by himself. If the thesis has not already been published, it shall be published by the candidate in such manner as the Senatus shall approve.

General.

X. Notwithstanding and in supplement of the Regulations as to Examinations, Sections XIV. and XV., the Senatus Academicus in each University shall appoint such Professors or Lecturers as it may think suitable to conduct the examination of candidates who may offer themselves under the Regulations for Degrees in Science, or of these Regulations for the Degree of Doctor of Science, Doctor of Philosophy, or Doctor of Letters; and the University Court shall, after consultation with the Senatus Academicus, appoint an additional Examiner to act along with them. Such additional Examiner shall be a person of recognised eminence in the subject of the thesis, or memoir, or work which is to be submitted for approval. The result of the examination shall be reported to the appropriate Faculty or Committee of Senatus.

XI. The degrees of D.Sc. in Mental Science or D.Sc. in Philology shall no longer be conferred by any Scottish University.

XII. Candidates who have already completed the necessary attendance on classes required for the degree of D.Sc. in Mental Science or D.Sc. in Philology, under regulations hitherto in force in any Scottish University, may proceed to the degree of D.Phil., or of D.Litt., as the case may be, under this Ordinance; provided such candidates comply with the provisions of Section VI. or Section IX. hereof, as the case may be, and that a period of not less than five years shall have elapsed from the date of their graduation as M.A.

XIII. The degrees of D.Sc., D.Phil., and D.Litt. shall in no case be conferred on persons who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

The fee to be paid for Examination for each of the degrees of D.Sc., D.Phil., and D.Litt. is ten guineas, payable when the thesis is lodged, and the fee for each re-examination for each of the degrees is £5, 5s.

Candidates for examination or graduation must pay the matriculation fee of £1, 1s. Candidates for graduation are required to enter their names and (if not previously registered) to pay the registration fee three days before the date of the Graduation Ceremonial.

¹ The Thesis must be lodged and the fees paid before 1st March; but intending candidates must give notice at the beginning of the Academic Year of their intention to present a Thesis, and of the subject which they propose to deal with.

COURSES OF INSTRUCTION AND SUBJECTS OF EXAMINATION.

I. Department of Language and Literature.

HUMANITY—(Latin).

PROFESSOR HARDIE and MR JAMES MILL, M.A.,
with Assistants.

First Ordinary Course—10 to 11.

This Class is taught in two divisions. Test papers in Translation and Composition will be set on Thursday, 8th October, and Friday, 9th October, 10-11 o'clock. Further details will be intimated by a notice posted on 7th October.

A list will further be posted of Students who have been placed in the Higher Division on the ground of work done in the Preliminary and Bursary Examinations; they are not required to attend the Test Examinations. Other intending members of the Class who do not take the test papers will be regarded as having elected to place themselves in the Lower Division.

Instruction is given in each of the three Terms of the Academic year. A portion of a Prose Author and of a Poet will be taken up in each, with the Political History and Literary History pertaining to them. Students who have attained to a satisfactory standard in the work of the first two Periods, and who have shown high proficiency in four authors, will be exempted from attendance during the third Term, under the conditions laid down by the University (p. 133).

The Class meets on Monday, Tuesday, Thursday, and Friday in the Autumn and Spring Terms, and on Tuesday, Wednesday, and Friday in Summer. On one of the days History or Literature will usually be the subject, on the others the text of prescribed authors, and from time to time a lecture, or part of a lecture, will deal with principles of composition or passages for composition or translation that have been set as exercises.

In addition to the lectures, Tutorial Instruction is given at times arranged each week for individual members of the Class, when composition or some other piece of written work is reviewed and discussed.

An examination in books read is held towards the close of each Term. From time to time shorter papers are set, in composition or in translation at sight.

On Wednesday at 12, in the First and Second Terms, once a fortnight, or as may be arranged, Verse Composition is dealt with, or a lecture is given on Metre or some other special subject. This hour is optional, and intended only for the more proficient members of the Class.

No particular edition of any book is *prescribed*. For ordinary Class purposes, the editions published in Messrs Macmillan's series will be found suitable in scope. Only a plain text is necessary in the case of books on which lectures are given. Students should possess a plain text of the whole author, *e.g.* Horace or Virgil.

Books recommended. — Gildersleeve and Lodge's *Latin Grammar*; Lindsay's *Historical Latin Grammar*; *Companion to Latin Studies*, ed. Sandys; Pelham's *Outlines of Roman History*; Myres' *History of Rome*; Capes' *Early Empire*; *Lives of Cicero, Caesar, and Augustus*, in the "Heroes of the Nations" series; Cruttwell's *History of Latin Literature*; Mackail's *Latin Literature*; Wight-Duff's *Literary History*; *Companion to Latin Authors* (Middleton and Mills); Warde Fowler's *Roman Festivals*; Rich's *Dictionary of Antiquities*.

Second Ordinary Course.

A student who has passed the Degree Examination after a First Course in Latin, or has obtained at least a second class Certificate of Merit, may take the Class a second time (entering the higher division, whether he has previously attended the higher or lower division). The Class work will be the ordinary work for that year, but the student will be required to attain to a considerably higher standard.

The Honours Class may be taken as a Second Course, if the student has obtained a Merit Certificate, and has passed at least the Higher Preliminary Examination in Greek.

The Subjects of Examination in Latin for the Ordinary Degree of M.A. are as follows:—

Prose Composition.

Translation from an Author or Authors not prescribed.

Roman History.—A general knowledge of Roman History to the death of Trajan is required of all candidates. It is expected also that the study of prescribed books (especially writings of Orators or Historians) will be accompanied by some special study of the times or events to which they relate.

Roman Literature.—A general knowledge of the course of Roman Literature to the death of Trajan, and a more minute knowledge of the Lives and Writings of prescribed Authors.

Composition, Translation, and general knowledge of Literature and History will form the main subject of the two Degree papers, of two hours each. Some knowledge of Grammar and Metre is also expected.

A reasonable measure of proficiency must be shown in each of the subjects of examination.

Books for 1915.

Candidates must show an adequate knowledge of at least four of the following:—

1. Virgil, *Aen.*, ii. and iii.
2. Horace, *Odes*, i., and *Carmen Saeculare*.
3. Cicero, *Pro Balbo* and *De Provinciis Consularibus*.
4. Tacitus, *Annals*, i.
5. *Catullus* (Selections).
6. *Livy*, bk. xxxiv.

All the books read in class will not necessarily be taken from this list, but if other books are read, they will be admitted as equivalents.

Candidates who have taken the Class in a previous year, without obtaining complete exemption in books, must offer the *first four* books on this list. If they present themselves in October 1914, they must offer the first four books on the list for that year.

Degree Examination after a Second Course in Latin.

The general part of the examination will include Composition, Translation at Sight, and History and Literature, as for the first year, and the hours of examination will be the same. In this part, and in books, a considerably higher standard will be required. If the Honours Class be taken as a Second Course (which may be done if the student has obtained a merit certificate in the First Course, and has passed at least the Higher Preliminary Examination in Greek), the books on which exemption may be obtained will be those read in that class.

Honours Course—11 to 12.

Each period forms a Half Honours Course, two Terms making a full Honours Course. The First and Second Terms should, if possible, be taken together. Lectures are given on four days a week (Tuesday, Wednesday, Thursday, and Friday), and tutorial instruction is given to members of the Class individually, at times arranged with them.

The chief work consists of readings and explanations of some of the more difficult Latin authors. Literature or History is dealt with in connection with one of the books read.

A passage for Prose Composition is set every week, and usually a passage for Verse Composition (optional). Papers in Translation at Sight, and critical papers of various kinds, are set from time to time; and subjects are prescribed for an English or Latin Essay (in December).

An examination on books read in both the First and Second Terms is held about the end of February.

In the Autumn and Spring Terms, 1914-1915, the following books will be taken up in whole or part:—Valerius Flaccus, *Argonautica*, v., vii.; Seneca (?), *Octavia*; Lucretius, v., or Plautus, *Trinummus*; Statius, *Thebais*, i.; *Ciris*. Similar work will be done in the Summer half-course, the books being taken mainly from the list of those prescribed for the Honours examinations.

The Subjects of Examination for the Degree of M.A. with HONOURS IN CLASSICS, or with HONOURS IN LATIN AND FRENCH, are given on page 152.

GREEK.

PROFESSOR MAIR and MR H. J. W. TILLYARD, M.A.

First Ordinary Course—11 to 12.

Instruction is given in each of the three Terms of the Academic year. The Class meets on Monday, Tuesday, Thursday, and Friday in the Autumn and Spring Terms, and on Monday, Wednesday, and Friday in Summer. The work consists of the reading of Greek poets and prose authors, lectures on

History, Literature, or Philosophy; Composition; papers in Unseen Translation, etc. Students who have attained to a satisfactory standard in the work of the first two periods, and who have shown high proficiency in four authors, will be exempted from attendance during the third Term, under the conditions laid down by the University (p. 133).

In addition to the lectures, tutorial instruction is given at times arranged for individual members of the Class, when composition or some other piece of written work is reviewed and discussed.

An examination in books read is held towards the close of each Term. From time to time, shorter papers are set, in Composition, Unseen Translation, etc.

Books recommended.—*Cambridge Companion to Greek Studies*; Jebb's *Primer of Greek Literature*; Bury's *History of Greece*; *Greek History*, by H. Swoboda (Dent & Co.); Woodhouse's *History of Greece* (W. B. Clive); *A Manual of Comparative Philology*, by Giles; *Introduction to Comparative Philology*, by J. M. Edmonds; Rich's *Dictionary of Antiquities*.

Students are advised to consult the Professor with regard to Textbooks.

Second Ordinary Course.

A student who has passed the Degree examination after a First Course in Greek, or has obtained at least a second class Certificate of Merit, may take the Ordinary Class a second time. The Class work will be the ordinary work for that year, but the student will be required to attain a considerably higher standard.

The Honours Class may be taken as a second course, if the student has gained a Merit Certificate.

The Subjects of Examination in Greek for the Ordinary Degree of M.A. are as follows:—

Prose Composition.

Translation from an author or authors not prescribed.

History.—A general knowledge of Greek History to the death of Alexander. It is expected further that the study of prescribed books (especially writings of orators or historians) will be accompanied by a more special study of the times and events to which they relate.

Literature.—A general knowledge of the history of Greek Literature to the end of the fourth century B.C., and a more special knowledge of the prescribed Authors.

A reasonable measure of proficiency must be shown in each of the subjects of examination.

For June and October 1915.

Books.—Candidates must show an adequate knowledge of at least *four* of the following : Homer, *Iliad*, xviii. ; Plato, *Allegory* ; Æschylus, *Prometheus Bound* ; Demosthenes, *Philippics*, i., ii., iii. ; Aristophanes, *Wasps* ; Lucian, *Menippus and Timon*. All the books read in class will not necessarily be taken from this list, but if other books are read, they will be admitted as equivalents.

Candidates who have taken the Class in a previous year, without obtaining complete exemption in books, must offer the *first four* books on this list. If they present themselves in October 1914, they must offer the first four books on the list for that year.

Degree Examination after a Second Course in Greek.

The general part of the examination will include Composition, Translation at Sight, and History and Literature, as for the first year, and the hours of examination will be the same. In this part, and in books, a considerably higher standard will be required. If the Honours Class be taken as a Second Course (which may be done if the student has obtained a merit certificate in the First Course), the books on which exemption may be obtained will be those read in that class.

Honours Course—10 to 11.

Each Term forms a half Honours Course, two Terms making a full Honours Course. The First and Second Terms should, if possible, be taken together. Lectures are given on four days a week—Tuesday, Wednesday, Thursday, Friday, and Tutorial Instruction is given to members of the Class individually, at times arranged with them.

The chief work consists of—

1. Readings of some of the more difficult Greek authors.
2. Lectures on Greek Literature, History, or Philosophy
3. Greek Composition and Translation of Unseen Passages.
4. Occasional Critical Papers and Essays.
5. Written Examinations on the work done in Class.

During the Autumn and Spring Terms, 1914-1915, the chief work of the Class will be Pindar, *Nemean Odes*; Lycurgus, c. Leocratem.

During the Summer Term the books read will be taken from the Honours programme for the following March. Tutorial instruction is given; and Composition, Unseen Translation, and an Essay will be set.

Elementary Course.

(Monday, Tuesday, Thursday, and Friday, 9 to 10 A.M.)

This Class is intended mainly for such students as have entered the University without sufficient knowledge of Greek to enable them to profit by the ordinary Graduation Class, but who have found reason to take up the study of Greek.

The Class meets, as above, during the Autumn and Spring Terms. The work will be largely tutorial, and will include Grammar, simple exercises in Composition, and reading of Easy Texts.—Fee £3, 3s.

The Subjects of Examination for the Degree of M.A. with HONOURS IN CLASSICS are given on p. 152.

CLASSICAL ARCHÆOLOGY.

PROFESSOR BALDWIN BROWN.

(For ORDINARY COURSE in Fine Art, see p. 230.)

Classical Archæology may be taken as one of the special subjects for Honours in Classics.

An Honours Course of about fifty lectures is given in the Autumn and Spring Terms on Mondays, Wednesdays, and Thursdays, at 5 P.M.

The treatment of the subjects includes :—

1. A general survey of the field of study, embracing a notice of (*a*) sites of artistic importance (Knossos, Mycenæ, Olympia, Delphi, the Athenian Acropolis, etc.); (*b*) the ancient city, its arrangement, dwellings, etc., with public structures, such as the Temple and the Theatre; (*c*) the artistic activity of the ancient craftsman in various departments, with the materials and processes on which he was employed.

2. An examination of selected passages from ancient authors bearing on the earliest history of the Arts in Greece.

3. A study of the History of Classical Sculpture from the earliest times to the Roman period.

Under heading 2, and to some extent under headings 1 and 3, original literary authorities are carefully examined, and those

taking the course in view of the examination in the subject in connection with Honours in Classics will be expected to acquire a critical knowledge of them.

The textbooks are Overbeck's *Schriftquellen* (a collection of passages from ancient authors bearing on Classical Art); Walters's *The Art of the Greeks* (London: Methuen, 1906); E. Gardner's *Handbook of Greek Sculpture*, with Appendix (London: Macmillan, 1896 and 1905).

The Class may be taken by students who have only a general interest in Classical Art, but it must be understood that the lectures will not be given unless some member or members of the Class are taking the subject for Classical Honours.

The Subjects of Examination in Classical Archaeology for the Degree of M.A. with HONOURS IN CLASSICS are given on page 152; and the Subjects in History of Art for the Degree with HONOURS IN HISTORY on page 231.

ANCIENT (GREEK AND ROMAN) HISTORY.

A. F. GILES, M.A., *Lecturer*.

(For Ordinary Course, see Department of History and Law, p. 224.)

Honours Half-Courses.

Candidates for Honours in Classics or in History may offer as an optional subject for examination a special period either of Greek or of Roman History. Lectures will be given in the Academic year 1914-1915 as follows:—

- (i) Autumn Term, 1914, on Tuesdays, Wednesdays, and Fridays at 12 o'clock: Honours half-course on Roman History, 28 B.C. - 68 A.D. (Period set for Honours in Classics and in History, 1915.)
- (ii) Summer Term, 1915, on Tuesdays, Wednesdays, and Fridays, at 12 o'clock: Honours half-course on Greek History, 433-386 B.C. (Period set for Honours in Classics and in History, 1916.)

The Subjects of Examination in Ancient History for the Degree of M.A. with HONOURS IN CLASSICS are given below ; and the Subjects for the same Degree with HONOURS IN HISTORY are given on page 231.

HONOURS EXAMINATION IN CLASSICS.¹

Curriculum.—The ordinary classes in Latin and Greek are usually taken in the first year. It will be found desirable to take two full Honours courses (or equivalent half-courses) in each language. Few, if any, candidates should attempt the Honours Examination before the end of their fourth year. A course in a special subject will usually form part of the work of the third or fourth year. Candidates should, if possible, attend the introductory courses in Ancient History and Ancient Philosophy, given by the lecturers in these subjects, at an early stage in their curriculum (see p. 120, footnote, and p. 181).

Ordinary subjects outside the Honours group.—The two subjects required may advantageously be taken in the second year, or one in the second and one in the third. When an Honours course in Classics is not taken, a course in Greek or Latin Composition should be taken, to maintain continuity of classical work.

For an Honours candidate in Classics, Logic or Moral Philosophy is an important subject. A sound knowledge of English literature is also very desirable. These subjects should not be omitted without careful consideration and consultation. For advanced work in this, as in other subjects, ability to read French and German books is of much importance.

Subjects of Examination.—A general acquaintance with the Greek and Latin writers of the classical age will be expected from all candidates ; and unseen passages from other than the prescribed authors will form an important part of the examination.

History.—A general knowledge of Roman history (to the death of Trajan), and of Greek history (to the death of Alexander) ; and a more minute knowledge in connection with prescribed works of orators, historians, or writers on Political Theory.

Literature.—A general knowledge of the course of Greek and Roman literature, and a more minute knowledge of the lives and writings of prescribed authors.

Composition.—Prose composition in Greek and Latin is required of all candidates. Verse composition is optional.

Special Subject.—Every candidate must offer one Special Subject from the list given below.

¹ The work prescribed in Latin also forms the programme in that subject under the Honours Group "Latin and French."

PRESCRIBED BOOKS.

Latin.

For 1915.

Horace—Plautus, *Stichus*—Lucretius, i.—Cicero, Consular Speeches—Seneca, *Octavia*—Valerius Flaccus, *Argonautica*, v. and vii.—Tacitus *Annals*, v., vi., xi., xii. (Ed. Pitman, Clarendon Press).

For 1916.

Virgil, including the *Ciris* and *Culex*—Plautus, *Trinummus* and *Mostellaria*—Lucretius, v.—Statius, *Thebais*, i., and *Achilleis*, i., 1-559—Cicero, *Brutus*—Tacitus, *Annals*, xiii. and xiv.

Greek.

For 1915.

Homer, *Odyssey*, i.-xii.—Pindar, *Nemean Odes*—Æschylus, *Agamemnon*—Lycurgus, c. Leocratem—Thucydides, viii.—Xenophon, *Economicus*.

For 1916.

Homer, *Odyssey*, xiii.-xxiv. — Pindar, *Isthmian Odes* — Sophocles, *Trachiniae*—Lycurgus, c. Leocratem—Plato, *Phædo*—Thucydides, iii.

SPECIAL SUBJECTS.

Comparative Philology.

For 1915 and 1916.

Candidates who take Comparative Philology as their special subject for Graduation with Honours in Classics, will be examined in the following branches of Linguistic Science: (1) Science of Language, including the history and general results of Linguistic research. (2) Principles of Indo-Germanic Comparative Philology, with special reference to the Greek and Latin Languages. (3) Etymology of Greek and Latin.

Books recommended for private study:—(1) M. Muller, *Lectures on the Science of Language*. W. D. Whitney, *Language and the Study of Language*. B. Delbrück, *Introduction to the Study of Language*. (2) P. Giles, *Short Manual of Comparative Philology*; J. M. Edmond's *An Introduction to Comparative Philology*. Also recommended for reference:—King and Cookson, *Principles of Sound and Inflection*. Brugmann's *Grundriss (Comparative Grammar of the Indo-Germanic Languages*, trans. by J. Wright, R. S. Conway, and W. H. D. Rouse). Brugmann and Stolz, *Greek and Latin Grammar* (Iwan Müller's *Handbuch der Klassischen Alterthumswissenschaft*, vol. ii.). Blass, *Pronunciation of Ancient Greek* (Cambridge University Press). (3) Curtius, *Principles of Greek Etymology*, book ii.

Classical Archæology.*For 1914 and 1915.*

1. The general history of the Arts of Form in Greece. To be studied in Overbeck's *Schriftquellen* and Walters's *The Art of the Greeks*.

2. The history of Greek Sculpture. To be studied in E. Gardner's *Handbook of Greek Sculpture* and Brunn-Bruckmann's Photographs.

Ancient Philosophy.*For 1915 and 1916.*

A. The outlines of Greek Philosophy before Aristotle, with—(1) The original authorities for Parmenides, Empedocles, Anaxagoras, and Democritus, as quoted in Ritter and Preller, *Historia Philosophiæ Græcæ*; (2) Plato, *Republic*, bks. vi. and vii., and *Phædo*.

Or, as an alternative:

B. The outlines of the Philosophy of Plato and Aristotle, with—(1) Plato, *Sophist*; (2) Aristotle, *De Anima*, bk. i. c. 1; bk. ii. cc. 1-6, 12; bk. iii. cc. 1-5.

Or, as an alternative:

C. Ancient Philosophy after Aristotle, with J. Adam's *Texts to illustrate Greek Philosophy after Aristotle*.

Ancient History.*For 1915.*

Greek History, 490-429 B.C., with Herodotus, books vii.-ix.; Thucydides, book i.; Hicks and Hill, *Manual of Greek Historical Inscriptions*, part ii.

Or, as an alternative:

Roman History, 29 B.C.-68 A.D. (with special reference to the Constitution of the Principate), with Suetonius, *Augustus*; Tacitus, *Annals* (passages relative to the Constitution of the Principate); the *Monumentum Ancyranum*; Rushforth, *Latin Historical Inscriptions*.

For 1916.

Greek History, 433-386 B.C., with Thucydides, books iii. and v.; Aristotle, *Constitution of Athens*, chs. 28-41; Hicks and Hill, *Manual of Greek Historical Inscriptions*, Nos. 49-98.

Or, as an alternative:

Roman History, 133-60 B.C., with the authorities cited in Greenidge and Clay, *Sources for Roman History*, 133-70 B.C.; and Cicero's *Letters* (Watson's Selections, Nos. 1-9).

SCHOLARSHIPS, ETC., in the Department of Classics, open 1914-15—**Ferguson**, p. 250; **Guthrie**, p. 251; **Rhind**, p. 255; **Vans Dunlop**, p. 259. BURSARY—**Lanfine**, p. 275.

RHETORIC AND ENGLISH LITERATURE.

PROFESSOR SAINTSBURY.

Lecturers—A. BLYTH WEBSTER, M.A., and GEORGE KITCHIN, M.A., B.Lit.

Ordinary Course.

4 to 5, Monday, Wednesday, and Friday, throughout the teaching part of each Term

Tutorial Class for sections by one of the Lecturers four days a week, and by the Professor one day in rotation. On Tuesdays and Thursdays this class will meet at 4 to 5; on the other days at 2 to 3 when taken by the Lecturer; at 3 to 4 when taken by the Professor.

On Mondays and Fridays the lectures will take for text the books prescribed for the year, which will always include parts of Chaucer, Spenser, Shakespeare, and Milton. The Wednesday lectures will be devoted during the Autumn and Spring Terms to the subject of Style in Prose and Poetry from Chaucer to the close of the nineteenth century, illustrated from Ward's *Poets* and Craik's *Prose Selections*, which should also form the subject of private reading; as well as to the general history of the subject, with the Professor's *Short History* or Morley's *First Sketch*, the Professor's *Historical Manual of English Prosody*, and any other books that may be suggested for private reading; during the Summer Term to Rhetoric, with De Quincey's Essay, Campbell's *Philosophy of Rhetoric*, Whately's *Rhetoric*, Bain's *Composition and Rhetoric*, and Hodgson's *Errors in English* for illustration and private reading.

There will be a Class examination towards the end of each Term, and in each of the Autumn and Spring Terms one minor examination in Class, and one essay to be done at home. There will be prizes for these essays, distinct from the general class prizes.

No one can take the second part of the Double Course without either passing the Degree examination at *one trial* in the first, or obtaining at least a second class certificate on the first year's work.

The standard of Class and Degree examinations in the second year's course will be higher than in the first.

Second Ordinary Course.

In addition to the Ordinary Course lectures, two short courses will be given—in the Autumn Term by the Senior Lecturer on "Scots Literature," in Spring by the Junior on "Language in relation to Literature." These must be attended by all Second Course students, and they are also open to Honours students who have not already attended them. The hours are 4 to 5 on Tuesdays and Thursdays; and the lectures are given under the direction of the Professor, who will occasionally take them himself.

The Ordinary Course has been so arranged that any year can be taken first by those who desire a Double Course, and any alone by those who wish for a single one, the two successive courses being complementary, but different, and each covering the whole subject in varying material. The books-lectures have been increased in number, and the books themselves are different in each year, their number being correspondingly increased. The additional time available for private reading should be directed to the generalities of the subject under the guidance of the Wednesday lectures.

It is not desirable that students should take the Double Course in English unless they either intend to take Honours or have some special preparation or aptitude for the subject.

Those who do intend to take Honours are strongly advised to devote the full five years to English, taking the British History Ordinary Course in their first year, with any other suitable one; the Double English Ordinary in their second and third; and the Honours Courses in the fourth and fifth. Those who can only afford four years might advantageously begin their Language Courses in the third.

Students who are not taking Honours, but who desire to take the Double Ordinary Course, will find, besides the "cognate" subjects (see p. 134), Logic or Moral Philosophy, and British History, especially suitable for combination.

The general prohibition of taking English in the first year

will only be suspended in particular cases for special reasons, such as the wish of the student to take the class before devoting himself to Honours study in some other subject.

The Subjects of Examination in English for the Ordinary Degree of M.A. are as follows :—

The Principles of English Composition and Style : Class Lectures. History of the English Language : The First Five Chapters of Morris's "Historical Outlines of English Accidence." History of English Literature : Lectures, with the Professor's "Short History of English Literature," or Morley's "First Sketch," and the Professor's "Historical Manual of English Prosody."

For October 1914.

Shakespeare, *King Lear* and *Twelfth Night*—Chaucer, *Non's Preests Tale*—Spenser, *Faerie Queene*, Book I.—Milton, *Paradise Regained*—Browne, *Religio Medici*—Addison, *Essays*—Pope, *Essay on Criticism*—Goldsmith, *Poems*—Wordsworth, *Poems*—Browning, *Dramatic Personae*.

For June and October 1915.

Shakespeare, *The Tempest* and *A Midsummer Night's Dream*—Chaucer, *The Priores's Tale* and *Sir Thopas*—Spenser, *The Faerie Queene*, Book II.—Milton, *Shorter Poems*, including *Lycidas*—Browne, *Urn Burial* and *Garden of Cyrus*—Dryden, *Selected Fables*, with *Preface*—Collins, *Poems*—Shelley, *Adonais*—M. Arnold, *Poems*.

Honours Courses.

PROFESSOR SAINTSEBURY and GEORGE KITCHIN,
M.A., B.Litt., *Lecturer*.

ENGLISH LITERATURE.

2 to 3 on Tuesday and Friday in each week of the teaching term.

The Course of fifty lectures will be divided into three sets corresponding to the terms. In the Autumn Term it will be a Higher Rhetoric Course, including the History of Criticism ; in the Spring Term it will deal with a special subject connected with the Honours period of the year ; and in the Summer Term with some particular book or books, author or authors, so connected. The Spring subject for 1915 will be "Poetry generally, 1830-1880" ; Summer, "Tennyson and Browning."

For 1916, Spring, "Poets from Chaucer to Wyatt" ; Summer, "Chaucer."

There will be tutorial classes for small sections in Honours. These classes will be held from 10 to 11 and from 11 to 12 every day, from Monday to Friday, by the Junior Lecturer, under the Professor's direction.

A. BLYTH WEBSTER, M.A., *Lecturer.*

ENGLISH LANGUAGE.

An Honours Course of fifty lectures on the History of the English Language will be delivered throughout the three Terms, on Monday and Thursday, from 3 to 4.

In the Autumn Term the lecturer will read, translate, and textually criticise one of the prescribed books in Old English (450-1100); in the Spring Term a Historical Sketch may be given of the development of Old and Middle English (1100-1500) and of Middle Scots (1450-1600). Some attention will be given to the problem of the dialects in the Old and Middle Periods, to their differences and interaction. But the main stress of both Courses will be upon the constitution and quality of the English vocabulary at various stages of its formation, on the successive additions to it of elements adopted from foreign sources; and the lectures will aim at throwing light on habits of *literary* thought and qualities of *literary* expression. The Summer Term is reserved for treatment of one or more of the texts prescribed from the Middle Periods.

Books for reference.—Pearsall Smith, *The English Language*; Bradley, *Making of English*; Toller, *Outlines of History of English Language*; Wyld, *Historical Study of Mother Tongue*; Jespersen, *Growth and Structure of English Language*; Sweet, *History of English Sounds*; Skeat, *Principles of English Etymology*; Kluge, *Geschichte der Englischen Sprache*; Bülbbring, *Alt Englisches Elementarbuch*; Sievers, *Old English Grammar* (ed. Cook); Kluge, *Angelsächsisches Lesebuch*; Sweet, *Oldest English Texts*, and *Anglo-Saxon Reader* (7th Edit.); Morsbach, *Mittel Englische Grammatik*; Emerson, *Middle English Reader*; Morris and Skeat, *Specimens of Early English* (i. and ii.); Kellner, *Outlines of English Syntax*; Murray, *Dialect of the South of Scotland*; Gregory Smith, *Specimens of Middle Scots*; Maunde Thompson, *Greek and Latin Palæography* (chaps. xvii.-xix.); Skeat, *Facsimiles of Old English Manuscripts*.

ENGLISH LITERATURE.

An Honours Half-Course of twenty-five lectures on a subject connected with the special period in literature will be given throughout the three Terms on Fridays, from 3 to 4. 1915: The Victorian Novel. 1916: The Course of Mediæval Drama.

The Subjects of Examination for the Degree of M.A. with HONOURS IN ENGLISH (Language and Literature) are as follows:—

HONOURS EXAMINATION IN ENGLISH (LANGUAGE AND LITERATURE).

Candidates for Honours in English must attend at least four complete courses of lectures within their Honours group, viz.: (a) Not less than three courses in English Literature, of which one at least must be an Honours course; and (b) the Honours course in English Language. They must take the Ordinary course in British History outside their Honours Group.

Every such candidate must be examined in all the subjects mentioned in the Additional Regulations, Section I. (c), Degree with Honours.

SUBJECTS FOR 1915.

Literature.

1. Rhetoric and the Principles of Literature. The Professor's *History of Criticism*, *Logic Critica*, *History of English Prose*, iv. and *History of English Prose Rhythm* are recommended. Knowledge of the following required: Aristotle's *Rhetoric* and *Poetics*; Quintilian's *Institutes*, especially books ix. and x.; Longinus, *On the Sublime*; Dante, *De Vulgaris Eloquentia*; Jonson, *Discoveries*; Dryden, *Essay of Dramatic Poesy*; Addison, *Essays on Paradise Lost* and *The Pleasures of the Imagination*; Pope, *Essay on Criticism*; Johnson, *Lives of Cowley, Milton, Dryden, Pope, and Gray*; Wordsworth's *Prose Prefaces*; Coleridge, *Biographia Literaria*, cap. xiv. to end; M. Arnold, *Essays in Criticism* (Preface and two first Essays, with Prefatory Essay to Ward's *Poets*); Masson's *Essay on Milton's English and Versification* (in Edition of Milton); Guest's *English Rhythms*.

2. Special—Literature from 1830 to 1880. Candidates are expected to show a fairly thorough knowledge of the following Poetry:—Tennyson, Browning, M. Arnold, Mrs Browning, W. Morris, Swinburne, the

Rossettis (special portions of these, and of minor poets to be indicated in lectures); also Palgrave's *Second Golden Treasury*. Prose—Carlyle, *Sartor Resartus* and *Past and Present*; Macaulay, *Essays*; Ruskin, *Selections*; Dickens and Thackeray generally; minor novelists and other prose-writers as indicated in lectures; Pater, *Studies in the Renaissance*.

3. The subjects of any other Honours Course in English Literature the Candidate may have attended.

Language.

1. The History of Old and Middle English and Middle Scots. For scope of subject and books recommended, see course on English Language. Candidates must show knowledge based on the texts in Sweet, *Anglo-Saxon Reader*; Morris and Skeat, *Specimens of Middle English*; and Gregory Smith, *Specimens of Middle Scots*. Unseen passages in O.E., M.E. and M.Sc. will be set for translation into Modern English.

2. *Special Readings for 1915*.—O.E. *Beowulf*, 1251-1887; *Wanderer*, *Seafarer*, *Phoenix*; Ælfred's version of Gregory's *Pastoral Care*, ed. Sweet, Part I.; *Sir Gaswayne and The Grene Knight*; *Lancelot of the Laik*.

SUBJECTS FOR 1916.

Literature.

1. Rhetoric and the Principles of Literature. The Professor's *History of Criticism*, *Loci Critici*, *History of English Prose*, and *History of English Prose Rhythm* are recommended. Knowledge of the following required: Aristotle's *Rhetoric* and *Poetics*; Quintilian's *Institutes*, especially books ix. and x.; Longinus, *On the Sublime*; Dante, *De Vulgari Eloquentia*; Jonson, *Discoveries*; Dryden, *Essay of Dramatic Poesy*; Addison, *Essays on Paradise Lost* and *The Pleasures of the Imagination*; Pope, *Essay on Criticism*; Johnson, *Lives of Cowley, Milton, Dryden, Pope, and Gray*; Wordsworth's *Prose Prefaces*; Coleridge, *Biographia Literaria*, cap. xiv. to end; M. Arnold, *Essays in Criticism* (Preface and two first Essays, with Prefatory Essay to Ward's *Poets*); Masson's *Essay on Milton's English and Versification* (in Edition of Milton); Guest's *English Rhythms*.

2. Special—Literature from Chaucer to Skelton. Candidates are expected to show thorough knowledge of the following:—Chaucer, *Prologue to Canterbury Tales*, *Knight's Tale*, *Prioress's Tale*, *Sir Thopas*, *Boethius*, and *Troilus and Criseyde*; Langland, Text A; Gower, *Confessio Amantis* (*Prologue*, and Bk. v.); Lydgate, *Tale of Thebes* and *Shorter Poems*; Hawes, *Pastime of Pleasure*; Skelton, *Crown of Laurel* and *Why Come Ye not to Court*; Dunbar, *Poems*; James I., *King's Quair*; Henryson, *Poems*; G. Douglas, *Prologues to Æneid*; Malory, *Morte d'Arthur*; Berners, *Froissart*; Pollard, *English Miracle Plays*; Chambers and Sidgwick, *Early English Lyric*.

Language.

1. The History of Old and Middle English and Middle Scots. For scope of subject and books recommended see course on English Language. Candidates must show knowledge based on the texts in

Sweet, *Anglo-Saxon Reader*; Morris and Skeat, *Specimens of Middle English*; and Gregory Smith, *Specimens of Middle Scots*. Unseen passages in O.E., M.E. and M.Sc. will be set for translation into Modern English.

2. *Special Readings for 1916*.—*Beowulf*, 1-1250; The Epic Fragments; *The Dream of the Rood*; *Piers Plowman*; Henryson, *Fables*.

SCHOLARSHIP in Department of English, open 1914-15—**Vans Dunlop**, p. 258; BURSARY, **Patterson**, p. 281.

FRENCH LANGUAGE AND LITERATURE AND ROMANCE PHILOLOGY.

CHARLES SAROLEA, K.O.L., Ph.D., Litt.D., *Lecturer*,

R. L. GRÆME RITCHIE, M.A., D.Litt. (Paris),
Junior Lecturer, and Assistants.

(a) Ordinary Course.

The Class meets on Mondays, Wednesdays, and Thursdays, at 3 o'clock, during the Autumn, Spring and Summer Terms. In addition to the ordinary lectures, one meeting a week is devoted to tutorial work. This is obligatory on all members of the Class (a minimum of one hour a week for each student).

The work of the Class consists of:—

1. A course of lectures and discussions on the History of French Literature.
2. A course of lectures and discussions on the History of French civilisation in its relation to Literature.
3. Interpretation of French Authors.
4. Translation from English into French and from French into English, and lectures on selected questions of French Philology and Grammar.

Students who have attained a satisfactory standard in the work of the Autumn and Spring Terms will be exempted from attendance during the Summer Term, provided they give reasons for exemption which are satisfactory to the Senatus.

The tutorial instruction given during the Summer Term is intended to supply, so far as possible, the results secured by residence abroad: mastery of the spoken language, free composi-

tion, *vivâ voce* translation, study of the "Realia" of French Life. This instruction will therefore tend to meet the needs of those students who are unable to complete their linguistic training by residence in France.

(b) Second Ordinary and Intermediate Course.

DR SAROLEA, DR RITCHIE, and Assistants.

This Class meets at 3 o'clock on Tuesdays, Thursdays, and Fridays. In addition to the ordinary lectures, each student is required to attend one tutorial class a week.

The work covers the same subjects as in the Ordinary Course, but is on a higher standard; it will also be more of a tutorial character, debates and discussions sometimes taking the place of set lectures.

The lectures on the History of French Literature and on the History of French Civilisation of the Ordinary Course, under headings (1) and (2) may be attended by members of this Class on Wednesdays.

The regulations of the Ordinary Course as to exemption from attendance during the Summer Term apply equally to the Intermediate Class.

The Subjects of Examination in French for the Ordinary Degree of M.A. are as follows:—

Passages from French Authors not prescribed. French prose composition. A general knowledge of the development of the French language. A general knowledge of the growth of French civilisation, with a more minute knowledge of the authors and periods prescribed.

Every candidate is required to satisfy the Examiners in translating English into French prose.

For October 1914.

FIRST COURSE.

La Chanson de Roland, ed. Clédat (Garnier)—Corneille, *Le Cid*, *Polyeucte* (Hachette)—Molière, *Les Femmes savantes* (Didier)—La Fontaine, *Fables* (Colin)—Bernardin de Saint-Pierre, *Paul et Virginie* (Nelson)—Balzac, *Le Père Goriot*, *Eugénie Grandet* (Nelson)—Victor Hugo, *Les Châtiments* (Nelson)—A. Barbier, *Œuvres et Poèmes* (Frowde)—Flaubert, *Trois Contes* (Nelson)—Daudet, *Lettres de mon Moulin* (Nelson)—Labiche, *Comédies* (Nelson)—Rostand, *L'Aiglon* (Fasquelle)—Barrett Wendell, *La France d'aujourd'hui* (Nelson)—*Les Cent Meilleurs Poèmes* (Gowans and Gray).

SECOND COURSE (see p. 164).

Joinville, *Histoire de Saint Louis* (Hachette)—Ronsard et les Poètes de la Pléiade (Gowans and Gray)—La Rochefoucauld, *Maximes* (Dent)—Racine, *Les Psaumeurs, Bérénice, Britannicus* (Hachette)—Boileau, *Art poétique* (Cambridge University Press)—Molière, *Le Misanthrope* (Didier)—D'Aubigné, *Les Tragiques* (Dent)—Chénier, *Poésies* (Gowans and Gray)—Lamartine, *Jocelyn* (Frowde)—Sainte-Beuve, *Pages choisies* (Colin)—P. Mérimée, *Chronique du règne de Charles IX.* (Nelson)—Rostand, *Chantecler* (Fasquelle)—Victor Hugo, *Avant l'Ève, Pendant l'Ève, La Légende des Siècles* (Nelson)—Ségur, *Jeune de Lestomassé*—Lévy, *Napoléon Intime* (Nelson)—Vogue, *Les Mots qui parlent*—Sarcy, *Le Siège de Paris*—Renan, *Souvenirs d'Enfance* (Nelson).

For June and October 1915.

FIRST COURSE.

Corneille, *Horace, Cinna* (Hachette)—Racine, *Britannicus* (Hachette)—Molière, *Théâtre choisi*: (Coll. Gallia)—La Fontaine, *Fables* (Colin)—Saint-Simon, *La Cour du Régent*—Musset, *Poésies* (Coll. Gallia)—Chateaubriand, *Enfance et Jeunesse* (Gallia)—Balzac, *Contes philosophiques, Le Cousin Pons*—Flaubert, *Trois Contes*—Veuillot, *Odeurs de Paris*—Lamy, *La France de demain*—Faguet, *Histoire de la Littérature française*.

SECOND COURSE (see p. 164).

Les Chansons de Guillaume d'Apulais (Champion)—Racine, *Andromaque, Athalie* (Hachette)—Boileau, *Art poétique* (Cambridge University Press)—Mme. de Sévigné, *Lettres*—Mme. de Maintenon, *Lettres*—Bossuet, *Oraisons funèbres* (Hachette)—La Bruyère, *Caractères* (Nelson)—Fenelon, *Education des Filles*—Beaumarchais, *Théâtre*—Rousseau, *Émile*—Lamartine, *Premières Méditations*—Balzac, *La Rabouillère*—Rostand, *Cyrano de Bergerac* (Fasquelle)—Maupassant, *Contes pour la Jeunesse*.

(c) Honours Course.

DR SAROLEA, DR RITCHIE, and Assistants.

This Class meets on Mondays, Wednesdays, and Thursdays, at 4 o'clock, during the Autumn and Spring Terms. An additional hour each week is devoted to tutorial work, which is obligatory on all members of the Class.

The Summer Term is optional, being intended for those Honours students who are not going abroad. These will attend the lectures of the Second Ordinary Course.

The work of the Class consists of:—

1. Lectures, discussions and debates on the History of French Literature and Culture.

2. Interpretation of Old French Texts and linguistic study of Modern French.

3. Translation into French and into English.

4. Interpretation and Criticism of Authors.

Students who intend to specialise in French are strongly recommended to take Latin as one of their additional subjects.

Candidates for Honours are recommended to take the Intermediate Class before entering the Honours Class, the complete curriculum being four years—one in the Ordinary Class, one in the Intermediate, and two in the Honours Class.

Double Courses for Ordinary Degree of M.A.

The following combinations of the above Courses are recognised as constituting a *Double Course* in French for the Ordinary Degree of M.A.—the Courses to be taken in the order in which they are named :—

I. (a) and (b).

II. (a) and (c).

III. (b) and (c).

The student must satisfy the Lecturers in French, by passing an examination or otherwise, of his ability to enter a more advanced Class.

The Subjects of Examination in French for the Degree of M.A. with HONOURS IN MODERN LANGUAGES AND LITERATURE, or with HONOURS IN LATIN AND FRENCH, are given on p. 169.

GERMAN LANGUAGE AND LITERATURE AND TEUTONIC PHILOLOGY.

OTTO SCHLAPP, Ph.D., *Lecturer*; H. F. EGGELING, M.A., *Junior Lecturer*, and the Assistant and Tutor.

(a) First Ordinary Course.

DR SCHLAPP, MR EGGELING, and Assistant.

This Class meets three times a week during the Autumn and Spring Terms (4 to 5). Besides, every student is obliged to attend *two* tutorial lessons per week. During the Summer Term

the Class meets twice a week (from 4 to 5). Students are obliged to attend *one* additional tutorial lesson a week.

The work of the Course embraces: Translation from simple German Prose and Verse, translation into German from simple English Prose and Verse,¹ occasional simple German Essays, interpretation of works selected chiefly from modern authors (drama, fiction, lyrics and ballads, and essays), a special course of eighteen lectures in German, a study of the outlines of German history, a study of the lives of the authors read, a study of German word formation, vocabulary and synonyms, written examinations on the work prescribed and unseen texts.

The tutorial lessons provided afford a training of the ear in understanding spoken German, practice in German pronunciation, reading aloud, recitation, conversation, *vivid voce* translation from and into German, oral free composition, a study of the vocabulary and idiom of ordinary spoken German, and a study of selected chapters of syntax.

Students who have attained a satisfactory standard in the work of the Autumn and Spring Terms may be exempted from attendance during the Summer Term, provided they give reasons for exemption which are satisfactory to the Senatus.

Fee for the whole course, including Summer Term, £4, 4s.

(b) Second Ordinary and Intermediate Honours Course.

DR SCHLAPP, MR EGGEING, and Assistant.

This Class meets three times a week, from 4 to 5, during the Autumn and Spring Terms. Besides, each student is obliged to attend *two* tutorial lessons per week. During the Summer Term the Class meets twice a week (from 4 to 5 P.M.), and students are obliged to attend *one* additional tutorial lesson per week. The work of this Class is in every respect a continuation of the work of the first year on a wider basis and a higher level. It also includes the study of some specimens of sixteenth-century literature. A special short course of eighteen lectures in German is attended by this Class and the Honours Class conjointly.¹

The Regulations under (a) as to exemption from attendance

¹ This Course of eighteen lectures may be taken separately. Fee, £1, 1s., and University Entrance Fee, 5s.

during a third term apply in the case of (b) likewise. The fees in the case of (b) are the same as those given under (a).

The Subjects of Examination in German for the Ordinary Degree of M.A. are as follows:—

Passages from German Authors not prescribed. German prose composition and essay. Grammar. A general knowledge of the development of the language. Some general knowledge of German History, and of the History of German Literature, with a more minute knowledge of the Authors prescribed and of the period 1740 to the present day.

Every candidate is required to satisfy the Examiners in translating from and into German, and in the oral test.

For October 1914.

FIRST COURSE.

Luther, *Murner, Kirchenlied* (Götschen)—Heil, *Deutsche Bürger und Städte im Mittelalter* (Teubner)—Hans Sachs (Götschen)—*Literaturdenkmäler des 17. und 18. Jahrhunderts* (Götschen)—Lessing, *Minna von Barnhelm* (Pitt Press)—Schiller, *Jungfrau von Orleans, Balladen*—Goethe, *Egmont—Kleist, Prinz von Homburg* (Gräser)—Bitterauf, *Friedrich der Grosse* (Teubner)—Matthias, *Patronische Lyrik* (Velhagen)—Eichendorff, *Gedichte, Taugenichts*—Uhland, *Gedichte*—Hansjakob, *Aus der Jugendzeit* (Volksausg.)—Riehl, *Kulturgeschichtliche Novellen* (Pitt Press)—Volkman-Leander, *Träumerisen*—Knauth, *Auswahl deutscher Gedichte*—Weise, *Deutsche Volksstämme und Landschaften*—Seidel, *Leberecht Hühnchen*—Lamprecht, *Portraitgalerie aus der deutschen Geschichte* (Reklam)—*Moderne erzählende Prosa*, i., ii., iii. (Velhagen)—Viëtor, *Aussprache des Schriftdeutschen*.

Oral examination on Eichendorff, Knauth, Weise, and Viëtor.

SECOND COURSE (see p. 168).

Wernher der Gaertenaere, *Meier Helmbrecht*—*Literaturdenkmäler des 14. u. 15. Jahrhunderts*—Hans Sachs (Götschen)—*Das deutsche Volkslied*, i. u. ii. (Götschen)—*Literaturdenkmäler des 17. u. 18. Jahrhunderts* (Götschen)—*Simplexsimus* (Velhagen)—Lessing, *Emilia Galotti*—Wieland, *Oberon*, ed. Sallwürk (Gräser)—Goethe, *Gedichte*, ed. Harnack, *Hermann und Dorothea, Götz*—Bode, *Goethes Lebenskunst*—Schiller, *Gedichte der III. Periode, Tell*—Arndt, *Wanderungen und Wandlungen*—Richter, *Schulmeisterlein Maria Wuz* (Reklam)—Grillparzer, *Sappho*—Ernst, *Asmus Semper*—Hesse, *Diesseits*—Schönherr, *Glaube und Heimat*—Avenarius, *Balladenbuch*—Storm, *Gedichte*—Heil, *Deutsche Städte und Bürger im Mittelalter* (Teubner)—Weise, *Unsere Muttersprache, Deutsche Volksstämme und Landschaften*—Rank, *Kulturgeschichte des Bauernhauses*—Leopold, *Im deutschen Reich*—Paulsen, *Deutsches Bildungswesen*—Göhre, *Das Waarenhaus* (Gesellschaft)—Mielke, *Der deutsche Roman* (Götschen)—Weitbrecht, *Literaturgeschichte der Klassikerzeit*—*Moderne deutsche Prosa*, iv., v., vi.—Paszkowski, *Lesebuch für Ausländer*—Die Ernte, i. u. ii.—Reuter, *Hanne Nüte*—Viëtor, *Aussprache des Schriftdeutschen*.

Oral examination on Ernte, Volksstämme, and Viëtor.

For June and October 1915.

FIRST COURSE.

Luther (Götschen)—*Literaturdenkmale des 17. u. 18. Jahrhunderts*, vol. i. (Götschen)—Lessing, *Nathan*—Goethe, *Iphigenie* (Pitt Press), *Wärdern und Dichtung*, i.-viii.—Schiller, *Maria Stuart*, *Brüder*—Kleist, *Kohlhaas*—Grillparzer, *Sappho*—Heine, *Harzreise*—Uhland, *Gedichte*—Mörike, *Mozart*—Volkmann-Leander, *Traumereien*—Kugelgen, *Jugendgedenken*—Wiesbadener Volksbücher, Nos. 2, 15, 35, 38, 44, 52—Die Ernte, vol. i.—Leopold, *Im deutschen Reich*—Lamprecht, *Porträtgalerie* (Reklam)—Weise, *Muttersprache* (Teubner), *Deutsche Volksstämme und Landschaften* (Teubner)—Viëtor, *Aussprache des Schriftdeutschen*.

Oral examination on Ernte, Leopold, and Viëtor.

SECOND COURSE (see p. 168).

Brant bis Rottenhagen (Götschen)—*Literaturdenkmale des 17. und 18. Jahrhunderts*, vol. ii. (Götschen)—Goethe, *Gedichte*, ed. Harnack—Schiller, *Tell*, *Gedichte der dritten Periode*—Kleist, *Der verübene Krug*—Bitterauf, *Friedrich der Grosse* (Teubner)—Heine, *Nordseebäder*—Ludwig, *Zwischen Himmel und Erde*—Riehl, *Kulturhistorische Novellen* (Pitt Press)—Storm, *Gedichte*—Schönherr, *Erde*—Ernst, *Asmus Sempers Jugendland*—Hesse, *Camenzind*—Wiesbadener Volksbücher, 18, 33, 37, 50, 51—*Moderne erzählende Prosa*, iv., v., vi. (Velhagen)—Reuter, *Heine's Novellen*—Kluge, *Unser Deutsch* (Quelle u. Meyer)—Viëtor, *Aussprache des Schriftdeutschen*.

Oral examination on Ernte and Viëtor.

A SPECIAL TUTORIAL COURSE in German, for Science Students and others, will also be given, as under:—

This course—open only to Matriculated Students—is intended for those desirous of obtaining a reading knowledge of German.

The Class will meet in the Autumn and Spring Terms, at 5 P.M., on Tuesdays, Thursdays, and Fridays. Fee for the course, £2, 2s.

(c) Honours Course.

DR SCHLAPP, MR EGGELING, and Assistant.

The work prescribed for the Honours Degree examination is spread over two years. The Class meets during the Autumn and Spring Terms daily from 3 to 4, except on Tuesdays, when the students attend the special short course of lectures in German, referred to under (b). Attendance on one tutorial lesson per week is obligatory on all members of the Class.

During the Summer Term practical tutorial instruction of an advanced character is given daily. This Summer Class is

optional, and intended for those Honours students who are not going abroad.

The work of the course embraces translation from German Prose and Verse (advanced texts); translation from English Prose, advanced texts (*e.g.* Lamb, Hazlitt, Ruskin, Carlyle, Stevenson, Pater, Meredith, Shaw);¹ essays in German; critical papers in English; translation and interpretation of mediæval texts and of texts illustrating the older forms of modern German; interpretation of characteristic works of modern and contemporary authors; translation and interpretation of texts in modern dialects; a special course of eighteen lectures in German on subjects announced for each year; a study of selected chapters of German History; a study of special chapters of German Philology and Historical Grammar; a study of selected essays (on German Archæology, History, Topography, Folk-lore, Politics, Social and Economic conditions, Literature, Art, Education, etc.); a study of the lives and times of the authors read; a course of private reading and research, with instruction in the use of the Reference Department of the German Library; written examinations on the work prescribed and unseen texts.

Fee for the Autumn and Spring Terms, £4, 4s.

Fee for Summer Term, £2, 2s.

Double Course for Ordinary Degree of M.A.

The following combinations of the above Courses are recognised as constituting a *Double Course* in German for the Ordinary Degree of M.A.—the Courses to be taken in the order in which they are named:—

- I. (a) and (b).
- II. (a) and (c).
- III. (b) and (c).

The student must satisfy the Lecturers in German, by passing an examination or otherwise, of his ability to enter a more advanced Class.

The Subjects of Examination in German for the Degree of M.A. with HONOURS IN MODERN LANGUAGES AND LITERATURE are given below.

¹ A Course of eighteen lectures, which may be taken separately. Fee, £1, 1s., and University Entrance Fee, 5s.

HONOURS EXAMINATION IN MODERN LANGUAGES AND LITERATURE.

Candidates for Honours must attend *at least* four complete courses in Modern Languages, two in French and two in German. Two of these courses must be Honours Courses, one in each subject. Candidates are advised to take the Ordinary classes in French or German (or, in the case of specially proficient students, the Intermediate class) during the first year, the two additional subjects and the Short or Intermediate courses in French and German during the second year, and to reserve the last two years for reading in Honours exclusively. They should spend abroad as much of the Vacation as possible. If in the Ordinary or Intermediate class they reach at the end of the second term the standard of a second class certificate, they may be exempted from attendance during the third term, on the understanding that they spend it abroad.

French.

Note.—This is also the programme of work in French under the Honours group "Latin and French."

French Composition and translation of modern passages. Text-books—The Lecturer's *French Composition* (Thorn); the Junior Lecturer's and Mr Moore's *Manual of French Composition* (Cambridge Univ. Press).

French History.—A general knowledge of French History, and a more minute knowledge of the period from 1789 to 1870. Books recommended:—Michelet, *Révolution française*—Taine, *Origines de la France contemporaine*—Thiers, *Consulat et Empire*—Jallilier et Vast, *Histoire contemporaine* (Paris, Garnier).

French Literature. A general knowledge of the history of French Literature, and a special knowledge of the period from 1800 to 1900.

French Language. (1) General knowledge of the development of French out of Latin. (2) Special study of the French of the XVIIIth century. (3) Special study of the language of prescribed modern prose authors.

Books prescribed:—Darmesteter, *Historical French Grammar*, transl. Hartog (Macmillan, 1899), especially books ii. and iv.—Bourciez, *Précis historique* (Paris: Klincksieck, 1900)—Darmesteter and Hatzfeld, *Le XVI^e siècle (Tableau de la langue)* (Paris, Delagrave)—Brunot, *Histoire de la langue française* (Paris, Colin, 1905-1912).

In addition to the work for the Honours Examination, a candidate may offer a thesis, and if he aims at obtaining First Class Honours he is required to do so.

The conditions are as follows:—

1. The thesis may be written in English or in French at the option of the candidate.
2. It should not exceed 8000 words in length.

3. A subject or subjects shall be suggested, by the Lecturers in French and the External Examiner, not later than the end of the Spring Term of the preceding year.

But a candidate may himself propose a subject, to be approved by the Lecturers and Examiner. If he does so, he must propose it at least a month before the end of the Spring Term.

4. The thesis must be sent in on the first day of the Term in which the Honours Examination is held (*i.e.* in January, with the Honours Examination in March).

Subjects for 1915.

Literature.

Montaigne, *Essais* (Flammarion)—D'Aubigné, *Tragiques* (Dent)—Pascal, *Provinciales* (Hachette)—La Bruyère, *Caractères* (Nelson)—La Fayette, *La Princesse de Clèves*—Saint-Simon, *Scènes et portraits*—Montesquieu, *Esprit des lois*—Rousseau, *Du contrat social*—De Staël, *De l'Allemagne*—Balzac, *La Rabouilleuse* (Nelson), *Contes philosophiques*—Victor Hugo, *Le Rhin*, *Les Misérables*, *Paris* (Nelson)—D'Avenel, *Les Français de mon temps* (Nelson)—Maeterlinck, *Morceaux choisis* (Nelson)—Edmond Biré, *Victor Hugo*—Faguet, *Dix-huitième Siècle*—Andrew Lang, *La Pucelle de France* (Nelson).

Linguistic.

(1) Earlier Period.—*Le Pèlerinage de Charlemagne*, ed. Koschwitz (Leipzig)—Joinville, *Histoire de Saint Louis* (Hachette)—*Extraits des prosateurs du XVI^e siècle*, ed. Huguet (Hachette).

(2) Modern Prose.—Voltaire, *Pages choisies* (Colin)—Chateaubriand, *Atala*—E. et J. de Goncourt, *Pages choisies* (Colin)—Fromentin, *Dominique* (Plon-Nourrit)—Maurice Barrès, *Au service de l'Allemagne*, *Colette Baudoche* (E. Paul)—Romain Rolland, *Jean-Christophe*, vol. i., *L'Aube*; vol. v., *Antoinette* (Ollendorff).

Subjects for 1916.

Literature.

Villon, *Poésies*—Montaigne, *Essais*—Voltaire, *Siècle de Louis XIV.*, *Contes et romans*, *Dictionnaire philosophique*—Rousseau, *Confessions*—Vigny, *Servitude et Grandeur militaires*; *Poèmes*—Veuillot, *Parfum de Rome*—Dumas (fils), *Théâtre choisi*—Taine, *Nouveaux Essais*—A. France, *La Vie littéraire*—Faguet, *Politiques et Moralistes*.

Linguistic.

La Vie de Saint Alexis, ed. Gaston Paris (Champion)—Joinville, *Histoire de Saint Louis* (Hachette)—*Extraits des Prosateurs du XVI^e siècle*, ed. Huguet (Hachette)—Voltaire, *Pages choisies* (Colin)—Chateaubriand, *Atala*, *René*—Fromentin, *Les Maîtres d'autrefois*.

German.

Translation from authors not prescribed. German Prose composition.
German Essay. German Grammar.

German History.—A general knowledge of the subject, and a more minute knowledge of the period from 1700 to 1900.

Recommended :—D. Müller, *Leitfaden der deutschen Geschichte*—Kaemmel, *Der Werdegang des deutschen Volkes*—Günther, *Deutsche Kulturgeschichte*.

German Literature—A general knowledge of the subject, and a more special knowledge of the authors prescribed, and of the period from 1740 to 1900.

Recommended :—M. Koch, *Deutsche Literaturgeschichte* (Götschen)—W. Scherer, *Deutsche Literaturgeschichte*—J. G. Robertson, *History of German Literature*—Kummer, *Deutsche Literatur im 19. Jahrhundert*.

German Philology.—Elements of Historical Grammar as contained in Brandt's *German Grammar* (Boston : Allyn & Bacon).

Recommended :—Behagel, *Die deutsche Sprache*.

Every candidate is required to satisfy the Examiners in translation from and into German, and in the oral test.

Subjects for 1915.

The Texts prescribed for 1914 or previous Honours Course attended and the following :—

Fuhse, *Deutsche Altertümer*—Axel Olrick, *Nordisches Geistesleben*—*Mittelhochdeutsche Frühzeit* (Götschen)—Hartmann, *Wolfram, Gottfried* (Götschen)—Walter, *Minnesang und Spruchdichtung* (Götschen)—*Das deutsche Volkslied*, i. u. ii. (Götschen)—Luther, *Murner, Kirchenlied* (Götschen)—Sachs (Götschen)—Wustmann, *Dürer* (Teubner)—*Literaturdenkmale des 17. u. 18. Jahrhunderts* (Götschen)—Lessing, *Laoköon* (Gräfer)—Winckelmann, *Musterstücke*, ed. Kuhne—Herder, *Von deutscher Art und Kunst*, ed. Lambel—Klopstock, *Oden* (Auswahl Gräfer)—Schiller, *Braut von Messina, Briefwechsel mit Goethe*, ed. Robertson—Goethe, *Werther, Faust I., Elegien, Westöstlicher Divan*—Fichte, *Reden an die deutsche Nation*—Heine, *Romanzen und letzte Gedichte*—Kügelgen, *Jugenderinnerungen*—Mörike, *Mozart, Gedichte*—Kuhl, *Mörike* (Dichtung)—Storm, *Schimmelreiter, Gedichte*—Raabe, *Schudlerump*—Fontane, *Effi Briest*—Hauptmann, *Der arme Heinrich*—Sudermann, *Heimat*—Keller, *Gedichte, Zürcher Novellen*—Meyer, *Hutten's letzte Tage, Hochzeit des Monchs*—Nietzsche, *Also sprach Zarathustra*—Münchhausen, *Erzählungen*—Forster-Möser, *Der kleine Tod*—Halbe, *Jugend*—Hoffmann, *thal, Der weiße Tod, Tod des Finstern*—Mann, *Buddenbrooks*—Mielke, *Das deutsche Dorf*—Reuter, *Hanne Nute*—Ernst, *Proben deutscher Mundarten* (Velhagen)—Simmel, *Die Religion* (Gesellschaft)—Braasch, *Religiöse Strömungen* (Teubner)—Brandt, *German Grammar*.

Oral examination on Hutten, Mozart, Schimmelreiter.

Subjects for 1916.

The Books prescribed for 1915, or for previous Honours Course attended, and the following :—

Steinhausen, *Germanische Kultur der Urzeit* (Teubner)—*Deutsches Leben im 12. und 13. Jahrhundert*, i. u. ii. (Götschen)—Bruinier, *Minnesang* (Teubner)—Meringer, *Das deutsche Haus* (Teubner)—*Nibelunge* (Götschen)—Wernher der Gaertenaere, *Meier Helmbrecht*—*Literaturdenkmäler des 14. u. 15. Jahrhunderts* (Götschen)—*Von Brant bis Rollenhagen* (Götschen)—Gurlitt, *Die Lutherstadt Wittenberg* (Marquart)—Grimmelshausen, *Simplicissimus* (Götschen)—*Literaturdenkmäler des 17. u. 18. Jahrhunderts*, i. u. ii. (Götschen)—Schrempf, *Lessing*—Goethe, *Hermann und Dorothea*, *Elegien und Episteln*, *Tasso*—V. Hehn, *Über Goethes Gedichte*—Schiller, *Wallenstein* (Pitt Press), *Natur und sentimentale Dichtung*, *Philosophische Gedichte*—Hebbel, *Nibelungen*—Lenau, *Gedichte*—Heine, *Buch der Lieder*—Walzel, *Die Romantik* (Teubner)—Fontane, *Der Stechlin*—Keller, *Leute von Seldweyla*—Huch, *Keller*—Meyer, *Richterlin*, *Gedichte*—Sudermann, *Ehre*—Hauptmann, *Versunkene Glocke*—S. Gebing, *Hauptmann*—Storm, *Aquis submersus*—Spitteler, *Glockenlieder*—Bühlau, *Rangierbahnhof*—Mazetti, *Deutsches Recht*—Dehmel, *Gedichte* (Auswahl)—Altenberg, *Bilderbogen des kleinen Lebens* (Reiss)—Hofmannsthal, *Unterhaltungen über literarische Gegenstände* (Literatur)—Ziegler, *Universitäten und Universitätsstudium* (Teubner)—Kluge, *Unser Deutsch* (Quelle u. Meyer)—Key, *Die Frauenbewegung* (Gesellschaft)—*Proben deutscher Mundarten* (Velhagen)—Reuter, *Franzosenstud*—Brandt, *German Grammar* (Boston: Allyn A. Brion).

Oral examination on *Universitäten, Frauenbewegung, Wittenberg*.

SCHOLARSHIPS in the Department of Modern Languages, open in 1914-15—Heriot Travelling, p. 252 ; Vans Dunlop, p. 262.

SANSKRIT AND COMPARATIVE PHILOLOGY.

PROFESSOR EGGELING.

A. Sanskrit Language and Literature.

1. *Junior Class*—2 to 3 P.M. Instruction in the elements of Sanskrit Grammar by means of systematic practical exercises. Translation and explanation of easy texts, such as *Nalopākhyānam*, and selected fables. Easy translations from English into Sanskrit (chiefly from Bhandarkar's First and Second Books of Sanskrit).

The work of the Junior Class is intended to lead up to the standard of the Preliminary examinations in Sanskrit.

2. *Senior Class*—3 to 4 P.M. This being the Graduating Class, students proposing to attend it with a view to graduation

in Arts must previously have passed an examination under section IV. subsection 3 of the Ordinance, consisting of plain passages for translation from and into Sanskrit, and grammatical questions.

The work of the Senior Class will be distributed as follows : Three days a week of the Autumn and Spring Terms will be devoted to the interpretation of Sanskrit works, such as *Hito-padeśa*, *Pancatantram*, Kālidāsa's *Raghuvansa*, *Kumarasambhava*, and *Śakuntala*, Manu's *Institutes of Law*, Episodes from the Epic Poems, and selected hymns of the *Rigveda*; whilst the remaining two days will be given to Sanskrit composition and to tutorial work chiefly for the revision of the Grammar. A general knowledge of the history of Sanskrit literature will be required in the M.A. examination.

Second Course of Senior Class.—A student who has passed the Degree examination after his first senior course, or has obtained a first or second class Certificate of Merit, may take the Senior Course a second time, when his Class and Degree work will be the ordinary work for that year, but he will be required to attain to a higher standard in both, and to study some texts in addition to those prescribed for the First Year's Class for home-reading.

B. Comparative Philology.

The professor will be prepared to deliver a Course of Lectures on the Principles of Indo-Germanic Philology and the History of Linguistic Studies, provided a sufficient number of students give in their names.

The Subjects of Examination in Sanskrit for the Ordinary Degree of M.A. are as follows:—

Hito-padeśa, book i. — *Nalopākhyānam* : First Course — Cantos 1-12. Second Course—Cantos 1-26—Sanskrit Grammar—Sanskrit prose composition.

A general knowledge of the history of Sanskrit Literature.

The Subjects of Examination in Comparative Philology for the Degree of M.A. with HONOURS IN CLASSICS are given on page 152.

HEBREW AND ARAMAIC.

PROFESSOR KENNEDY and Assistant.

The following classes are provided for students taking Hebrew as a subject for Graduation in Arts :—

Elementary and Junior Courses.

1. *An Elementary or Beginners' Class*, meeting on Tuesdays and Thursdays, for three Terms, at 2 P.M. Textbook, Davidson's *Introductory Hebrew Grammar*.

This Class prepares intending students of Divinity for the Entrance examinations of the various Churches.

2. *Junior Class*, meeting four times a week (Mondays, Tuesdays, Thursdays, Fridays), for three Terms, at 10 A.M. Revision of Grammar with home exercises, reading of easy prose passages (Genesis, Ruth, etc.), and of selected Psalms.

This Class prepares for the Preliminary examination required of all students taking Hebrew as a graduating subject, in terms of the Ordinance. The Examination includes questions on Grammar, and plain passages to translate from and into Hebrew.

Members of the Junior Class are understood to have already mastered the elements of the Grammar as represented by, *at least*, sections 1 to 30 of the textbook.

First Ordinary Course.

3. *Senior or Graduating Class*, meeting five days a week at 9 A.M. during the Autumn and Spring Terms. Three hours a week are occupied with the critical study of selected portions of the historical, prophetical, and poetical books of the Old Testament. These vary from year to year, and always comprise a considerable part of the books prescribed for the ordinary Degree of M.A. (see below). The other two hours are devoted to lectures on the History and Literature of the Hebrews (Wednesdays), to the study of the syntax, and to prose composition.

Second Ordinary Course.

4. Students taking the Senior Class as a second course for graduation have to give evidence of fitness either (1) by passing the M.A. examination in Hebrew on the ordinary standard, or

(2) by obtaining a first or second class certificate for the work of the Ordinary Class. They are also required to pass the Term examinations in the second year of attendance on a higher standard.

The books to be studied will be those for the Ordinary Course for the year, with portions of more difficult authors on Wednesdays (see the books prescribed for graduation below).

Honours Courses.

5. (a) An Honours Hebrew Class, meeting three times a week for the three Terms, at 10 A.M., devoted to the study of some of the more difficult books of the Old Testament, and of texts in post-biblical Hebrew (Mishna and Jewish Commentaries). Lectures will be given on Hebrew literature biblical and post-biblical, and on the Comparative Grammar of the Semitic Languages. There are also weekly exercises in prose composition.

(b) A Class for the study of Aramaic, meeting twice a week throughout the Session, at an hour to suit intending students. West Aramaic (Syriac) and East Aramaic ("Chaldee") will be taken up in alternate years.

The Subjects of Examination in Hebrew for the Ordinary Degree of M.A. are as follows:—

First Course.

1. Questions in Grammar. 2. Translation into Hebrew Prose. 3. 1 Kings, i.-iii., xvii.-xxii.; 2 Kings, xvi.-xxiii.; Isaiah, xl.-lv.; Psalms, xc.-cvi., cxx.-cxxxiv. 4. Short passage from a historical book to translate at sight. 5. *Hebrew History and Literature* during the period of the Monarchy.

Second Course.

1. More advanced Grammar, including Syntax. 2. Translation into Hebrew Prose. 3. The books prescribed for the ordinary course, also Isaiah lvi.-lxvi., Job i.-x. 4. Unseen passages, pointed and unpointed, from historical books. 5. A general knowledge of Hebrew History and Literature, with special attention to the books studied.

The Subjects of Examination in Hebrew for the Degree of M.A. with HONOURS IN SEMITIC LANGUAGES are given on page 177.

ARABIC.

EDWARD ROBERTSON, M.A., B.D., D.Litt., *Lecturer*.

The following classes are provided for students taking Arabic as a subject for Graduation in Arts:—

1. *Junior Class* for beginners, meeting on Mondays, Wednesdays, and Fridays for three Terms at 2 P.M.

Textbooks.—Socin's *Grammar*; Thornton and Nicholson, *Elementary Arabic: First Reading Book*.

The Class prepares for the Preliminary examination required of all students taking Arabic as a graduating subject. The examination includes questions on Grammar, and translation from and into Arabic.

2. *Senior or Graduating Class*, meeting on Mondays, Wednesdays, and Fridays for three Terms, at 3 P.M. The work comprises more advanced reading in prose and poetry, the study of the syntax, prose composition, and lectures on history.

Textbooks.—*The Koran* (Fluegel's edition), or Nallino's *Chrestomathia Qorani Arabica*; De Goeje's *Selections from the Annals of Tabari*; *Kalilah wa-Dimnah* (Beyrout edition); Noeldeke and Mueller's *Delectus Veterum Carminum Arabicorum*; *Al-Ajurrūmiyah*; Wright's *Arabic Grammar* (3rd edition).

3. *Honours Class*, meeting four days a week at 4 P.M. The work of the Class consists of reading more difficult authors in prose and poetry, advanced study of syntax (including native Arabic grammar), prose composition, practice in reading manuscripts, and lectures on the History and Literature of the Arabs (see below).

The Subjects of Examination in Arabic for the Ordinary Degree of M.A. are as follows:—

1. Questions in Grammar. 2. Translation into Arabic Prose. 3. De Goeje's *Selections from the Annals of Tabari*; *The Koran*, Selected Suras as in Nallino's *Chrestomathia Qorani Arabica*; *Kalilah wa-Dimnah* (Beyrout edition), pp. 108-126; Noeldeke, *Delectus Veterum Carminum*, etc. (selections); *Al-Ajurrūmiyah*. 4. Short passage of easy prose to translate at sight. 5. *History of the Chaliphate to 132 A.H.*

The Subjects of Examination in Hebrew and Arabic for the Degree of M.A. with HONOURS IN SEMITIC LANGUAGES are given below.

HONOURS EXAMINATION IN SEMITIC LANGUAGES.

Curriculum.—It is essential that Candidates for Honours in Semitic Languages, if not already familiar with Hebrew or Arabic, *begin the study of at least one of these languages in their first academic year*, as it is impossible for such students to reach an Honours standard with less than four years of continuous study. The following is an outline of the curriculum suggested :—

First Year.—Elementary Hebrew; one or both of the extra subjects outside the Honours group.

Second Year.—Hebrew for Ordinary Degree; Junior Arabic; second extra subject, if not already taken.

Third Year.—Hebrew Advanced Course or Honours Class; Arabic for Ordinary Degree; Aramaic Class.

Fourth Year.—Hebrew Honours Class; Arabic Honours Class; Aramaic. Candidates are advised that a working knowledge of German is indispensable for the advanced study of the Semitic Languages.

SUBJECTS OF EXAMINATION.

1. Translation into English from prescribed books in Hebrew (Biblical and post-biblical) and Arabic.
2. Translation of passages in prose and poetry from books other than those prescribed.
3. Prose Composition in Hebrew and Arabic.
4. A general knowledge of Hebrew history and literature to the close of the Talmud, and of Arabic history and literature to the end of the Abbaside period, with a more minute knowledge of the authors and books prescribed.
5. Aramaic. Translation from prescribed books, or parts of books, in East Aramaic (Syriac) and West Aramaic ("Chaldee") respectively.
6. Comparative Grammar of the Semitic Languages.

PRESCRIBED BOOKS.

Hebrew and Aramaic.

For 1915.

The Books of Samuel, Jeremiah, and Job; Mishna, *Yoma* (Strack's edition); Kimchi's *Commentary on Psalms* i.-v. (Schiller-Szinessy's edition); the Gospel of Mark (Peshitta Version), and the *Targum* of Onkelos, Genesis i.-xii.

For 1916.

Exodus i.-xxiv., Leviticus xvii.-xxvii., Jeremiah i.-xlv., Psalms, Bks. iii. and iv., Job i.-xxxi.; Mishna, *Puq'at Aboth*, i.-v. (Strack's edition); Kimchi's *Commentary on Psalms* i.-v. (Schiller-Szinessy's edition); the Aramaic parts of Daniel, *Targum* (Onkelos), Genesis i.-xii., and the Gospel of Mark in the Peshitta Version.

Arabic.*For 1915.*

The Kor'an: Suras iii. and vi. with Baidawi's *Commentary*; selections from the *Ṣaḥīḥ* of al-Buhārī (Semitic Study Series); selections from the *Prolegomena* of Ibn Khaldun (Semitic Study Series); *Dīwān* of Ḥassān b. Thābit (ed. Hirschfeld) i.-xxv., cxxxiii., and cxxxiv.; Zamakhshari's *Al-Mufaṣṣal* (ed. Broch), pp. 108-130.

For 1916.

The above, with selections from *Alf Lailah wa-Lailah*, and with Shaikh Nāṣif's *Faṣḥ-l-Khiṭāb* in place of the *Mufaṣṣal*.

CELTIC.

PROFESSOR WATSON.

A. Graduation Class—First Ordinary Course.

The Class meets at 4 P.M. on three days per week, and the course of study will be arranged as follows:—

Autumn Term.—(1) Reading and Exposition of Scottish Gaelic on two days per week. Textbooks: *Gaelic Reader*; *Beauties of Gaelic Poetry*; Ossian's *Poems*; *Extracts for Reading*, Part II. (2) Grammar and Composition on Friday.

Spring Term.—(1) Reading and Exposition of Scottish and Irish Gaelic: *Extracts for Reading*, Part II.; *Graduated Reading in Irish Gaelic*; Keating; Prose Composition. (2) Lectures on the Grammatical Forms of the Language.

Summer Term.—(1) Reading—Strachan's *Paradigms and Extracts*; (2) Lectures on Gaelic Literature (1000 A.D. till 1560 A.D.). *Tales from Tain bo Cuailgne*.

Second Ordinary Course.

A student who has passed the Degree examination after a First Course in Celtic, or has obtained a first or second class Certificate of Merit, may take the Class a second time. The Course of Study will be the ordinary work for that year, but the student will require to attain to a considerably higher standard.

Any student who attends this Class with a view to Graduation in Arts must previously have passed an examination (under sect. IV. subsect. 3 of the Ordinance), which will be in Scottish

Gaelic, or Irish Gaelic, or Welsh, and will include translations from and into English, with grammatical, literary, and easy philological questions.

The fee for a student who attends with a view to graduation is £4, 4s. ; for non-graduating students, £2, 2s.

B. Advanced Class.

This Class meets on three days per week at 3 P.M. The course of study will be :—

Autumn Term.—Old Gaelic: Strachan's *Paradigms and Extracts*; Grammar and Exercises.

Spring Term.—Reading from Windisch's *Irische Texte*; *Book of Deer*; *Tales from Tain bo Cualgne*.

Summer Term.—Composition; Reading from MSS., *Selected Texts*; Lectures on Gaelic Literature.

Fee for this Class, £1, 1s.

An Elementary Class in Scottish Gaelic, meeting on two days of the week, will be held in the Autumn and Spring Terms, if a sufficient number of students give in their names. Fee for this class, £1, 1s.

The Subjects of Examination in Celtic for the Ordinary Degree of M.A. are as follows :—

1. *Scottish Gaelic.*—Ossian, *Fingal*, Books I.-III.; *The Beauties of Gaelic Poetry*, pp. 14-52; the Poems of Duncan M'Intyre and Dugald Buchanan; the prose portion of Mackenzie's *Fear-chleò*; *Carnat nan Gaidheal*.

2. *Irish Gaelic.*—Keating's History of Ireland.

3. *Old Gaelic.*—Strachan's *Paradigms*, and first twenty pages of *Selections from Glosses*; *Tales from Tain bo Cuailgne*.

4. Passages in Modern Gaelic (both Scottish and Irish) from Authors not prescribed.

5. Translation from English into Gaelic Prose (Scottish or Irish).

6. *History and Literature.*—The History of Gaelic Literature from 1000 A. D. till 1560 A.D.

SCHOLARSHIP in Department of Celtic, open 1914-15—**Macpherson**, p. 254. PRIZE—**Blackie**, p. 287.

II. Department of Mental Philosophy.

LOGIC AND METAPHYSICS.

PROFESSOR A. S. PRINGLE-PATTISON.

Ordinary Class—1 to 2.

LOGIC AND PHILOSOPHICAL INTRODUCTION.

This Class meets for Lectures on Tuesdays, Wednesdays, and Fridays during the teaching part of each Term, besides additional meetings for tutorial instruction.

The course in this Class falls into two parts, which are carried on simultaneously throughout the Session.

The first part includes the Elements of Logic, deductive and inductive, giving special attention to the methods of science and the nature of scientific proof.

The textbook used is Mellone's *Introductory Textbook of Logic*, and students preparing for the Class may find it useful to work over the elementary doctrines of Formal Logic to the end of Syllogism (chapters 1, 2, 3, 5, 6).

In the second part of the Course an attempt is made to introduce the student to the chief questions of Philosophy in connection with their historical development, especially in modern times.

The Subjects of Examination in Logic and Metaphysics for the Ordinary Degree of M.A. are as follows:—

For October 1913 and June and October 1914.

The Class Lectures on Logic and Philosophy; Locke's *Essay concerning Human Understanding*, book ii., chapters 1-12 and 23; Fraser's *Selections from Berkeley* (Editor's Introduction to the volume and *The Principles of Human Knowledge*, with Berkeley's own Introduction); Hume's *Enquiry concerning Human Understanding*.

Honours Course.

ADVANCED METAPHYSICS—3 to 4.

This Class, constituting an Honours Course of fifty lectures, meets on Tuesdays, Wednesdays, and Fridays during the first two terms of the academic year. The Course is mainly devoted

to the Philosophy of Kant. The earlier lectures deal critically with Locke and Hume as leading up to the Kantian Problem, and the concluding portion of the Course is devoted to the Idealistic development of German Philosophy in Hegel. Students, if they so desire, may take the first half of this Course in the Autumn Term of one session and the second half in the Spring Term of the following session.

The Subjects of Examination in Logic and Metaphysics for the Degree of M.A. with HONOURS IN MENTAL PHILOSOPHY are given on page 186.

ANCIENT PHILOSOPHY.

R. P. HARDIE, M.A., *Lecturer.*

A. Introductory Course.

This Course (in the Summer Term) is intended generally for those who wish to begin the study of Greek Philosophy, and specially to give the elementary knowledge of Greek Philosophy that is necessary for those who think of reading for Honours in Classics or Philosophy. It is divided into two sets of lectures, each consisting of about twenty lectures:—

1. Tues. and Thur., 12 to 1. This set is meant for those who have not taken any Course in Philosophy, and will not assume any knowledge of Philosophy.

Subjects:—Pre-Socratic Philosophy (in some detail), the Sophists, Socrates, and the elements of Plato's Philosophy.

2. Wed. and Fri., 11 to 12. This set is meant for those who have already attended (or are attending) a Course in Philosophy.

Subjects:—Zeno and Pythagoreanism; the relation of Socrates to Pythagoreanism; the Platonic Myth; Plato's Method of Hypotheses; the Megarian Criticism of the Theory of Ideas; Aristotle's Conception of Change.

The two sets of lectures, or either set supplemented by reading corresponding to the other set, will cover period A of Ancient Philosophy as a special subject for Honours in Classics.

B. Honours Half-Course.

This Course (in the Autumn Term) will deal chiefly with Plato's later Metaphysics (*Theætetus* and *Sophist*) and with Aristotle's theory of knowledge and *De Anima*. It will assume a knowledge of Greek Philosophy equivalent to that given in Course A.

C. Honours Half-Course.

This Course (in the Spring Term) will discuss the development of Philosophy after Aristotle, and may include an account of the influence of Aristotle in the Middle Ages. It will assume a knowledge of Greek Philosophy equivalent to that given in Course A. *This Course will not be given unless a sufficient number desire to take it.*

ADVANCED LOGIC.

R. P. HARDIE, M.A., *Lecturer.*

This Course of twenty-five lectures, constituting an Honours Half-Course, is given in the Spring Term. The subject is the chief problems of modern logic, and the Course consists largely of a discussion and criticism of Bosanquet's *Essentials of Logic*, and *Logic or the Morphology of Knowledge*.

The Subjects of Examination in Ancient Philosophy and Advanced Logic for the Degree of M.A. with HONOURS IN MENTAL PHILOSOPHY are given on p. 186; and the Subjects in Ancient Philosophy for HONOURS IN CLASSICS are given on page 154.

MORAL PHILOSOPHY.

PROFESSOR JAMES SETH.

First Ordinary Course—12 to 1.

This Class meets for lectures on Monday, Wednesday, and Friday during the teaching part of each term.

Autumn Term.—Problem and Method of Ethics—Fundamental Ethical Concepts—Ethical Theories:—I. Formalistic: Intuitionism and Transcendentalism.

Spring Term.—II. Teleological: 1. Utilitarianism; 2. Idealism or Eudaemonism: (1) Butler; (2) Aristotle—Resulting statement of ethical theory.

Summer Term.—Ethical Institutions—the State and the Industrial Community.

The Class will also meet frequently on Tuesday or Thursday, at the same hour, for discussion and tutorial instruction.

A special study will be made of Kant's *Fundamental Principles of the Metaphysic of Ethics*; Mill's *Utilitarianism*; Butler's *Sermons on Human Nature*; and Aristotle's *Ethics*, bks. i., ii., x., chs. 6-9.

Second Ordinary Course — 12 to 1.

HENRY BARKER, M.A., *Lecturer.*

This Class meets for lectures on Monday, Wednesday, and Friday during the teaching part of each term.

The object of the Course is to supplement the study of ethical thought in the First Ordinary Course by a similar study of political thought.

Autumn Term.—Introductory—Greek Political Thought.

Spring Term.—The Social Contract Theory in Hobbes, Locke, and Rousseau.

Summer Term.—Recent Political Thought as represented by Green and Sidgwick.

The Subjects of Examination in Moral Philosophy for the Ordinary Degree of M.A. are as follows:—

First Ordinary Course.

Aristotle's *Ethics*, bks. i., ii., x., chs. 6-9; Kant's *Fundamental Principles of the Metaphysic of Ethics*; Mill's *Utilitarianism*; and Butler's *Sermons*, i.-iii.

Second Ordinary Course.

The parts of Aristotle's *Politics* studied in class; Rousseau's *Social Contract*; Green's *Principles of Political Obligation*.

Honours Course—10 to 11.

PROFESSOR SETH.

This Class meets on Monday, Wednesday, and Friday during the Autumn and Spring Terms.

Some of the books prescribed for Honours will be made the basis of study and discussion.

Honours Half-Course—10 to 11.HENRY BARKER, M.A., *Lecturer.*

This Class meets on Monday, Wednesday, and Friday during the Summer Term.

The lectures will deal with some of the books prescribed for Honours. Students reading for Honours in Philosophy are recommended to take this Course along with the Summer Term of the First Ordinary Course.

The Subjects of Examination in Moral Philosophy for the Degree of M.A. with HONOURS IN MENTAL PHILOSOPHY are given on page 186.

PSYCHOLOGY.W. G. SMITH, M.A., Ph.D., *Lecturer.***Ordinary Course.**

(Monday, Wednesday, and Friday, 2 to 3.)

The Course will deal with the following topics mainly in the order indicated. Reference will be made during the Course to the history of psychological theories and investigations. In the Third Term, part of the Class work will be carried on in the Psychological Laboratory. Meetings for tutorial instruction will be held at the usual Class hour in each term.

The scope and general methods of Mental Science. Its relations to philosophical and biological studies. Theories regarding the connection of mind and body. Outline of the

structure and functions of the sense-organs and the nervous system in their relations to mental life.

The fundamental forms of mental process. The various factors of perception. The ideational and intellectual processes, including imagination, memory, conception and judgment. The nature and functions of attention. The simpler and the more complex forms of feeling. Instinct and habit: impulse, and desire: voluntary activity. Theories of freedom and determinism. Personality and consciousness of self. The social factor in mental life.

The scope of Individual Psychology. The relations between normal and abnormal states. The principles of Genetic Psychology. The successive stages in childhood and adolescence. The connection of mental development with biological evolution. Outlines of Comparative Psychology. The scope of Social Psychology.

During the Summer Term, in addition to lectures, which will be continued on Fridays after the first week, the Class work will include a Course of practical work illustrating the employment of experimental and statistical methods in Psychological investigation. For this purpose the Class will be divided, after the first week of term, into two sections, the first meeting at the Ordinary Class hour on Mondays and Wednesdays, and the second meeting from 3 to 4 on the same days.

The Subjects of Examination in Psychology for the Ordinary Degree of M.A. are as follows:—

The Class lectures, together with the work in the practical section of the course: Hobbes's *Leviathan*, part i., chs. 1-8, 11 and 13; Berkeley's *Essay towards a New Theory of Vision*; Ribot's *Psychology of Attention*.

Advanced Course.

(Monday, Wednesday, and Friday, 4 to 5,
Autumn and Spring Terms.)

This Course qualifies for Honours in Mental Philosophy. The work falls into two sections, which will, as a rule, be carried on concurrently. The theoretical section will deal with the more abstract and fundamental questions arising in connection with the various branches of Psychology. The experimental section

will include lectures and practical work dealing with the more advanced treatment of experimental problems and methods. A certain number of lectures will be devoted to the History of Psychology. Attention will be given to the books prescribed for the Honours examination.

Applied Psychology.

A Course of lectures on this subject, which is open to those who are attending or have attended the Class of Psychology, will be given by the Lecturer and the Assistant at the Ordinary Class hour on Thursdays during the Summer Term. The Course will deal with the application of psychological principles and methods in the investigation of problems of practical interest, including those arising in connection with social study, educational methods, judicial procedure, and the treatment of abnormal mental life.

Special Medical Course.

The work of this Class, which is held in the Summer Term, is adapted for those studying in connection with the Diploma in Psychiatry. For syllabus and regulations see under Faculty of Medicine.

The Subjects of Examination in Psychology for the Degree of M.A. with HONOURS IN MENTAL PHILOSOPHY are given below.

HONOURS EXAMINATION IN MENTAL PHILOSOPHY.

The examination for HONOURS IN MENTAL PHILOSOPHY will consist of the following papers :—

1. Two papers in Metaphysics (three hours and two hours respectively).
2. Two papers in Moral Philosophy (three hours each).
3. Two papers in Advanced Psychology (three hours each).
4. One paper in Advanced Logic (two hours).
5. One paper in Ancient Philosophy (two hours).
6. One Essay paper (three hours).

Candidates taking Advanced Psychology will omit the papers in Advanced Logic and Ancient Philosophy, and *vice versa*.

All candidates must pass an examination in Psychology on the Ordinary Degree standard, to be taken at an earlier period in their course.

Logic and Metaphysics.*For 1915 and 1916.*

A general knowledge of the history of Philosophy and of the more advanced doctrines of Logic, as in Bradley's *Principles of Logic* or Bosanquet's larger *Logic*.

A special knowledge of the following books:—Plato, *Sophist*—Aristotle, *De Anima*, bk. i. ch. 1; bk. ii. chs. 1-6, 12; bk. iii. chs. 1-5—Spinoza, *Ethics*—Hume, *Treatise on Human Nature*, bk. i.—Kant, *Critique of Pure Reason*—Hegel's *Logic*, in Professor Wallace's translation, chs. 1-6.

Moral Philosophy.*For 1915 and 1916.*

A general knowledge of the history of Ethical Theory, and a more special knowledge of the following books:—

Plato, *Republic*—Aristotle, *Ethics*—Kant, *Critique of Practical Reason*—Stephen, *Science of Ethics*—Green, *Prolegomena to Ethics* and *Principles of Political Obligation*.

Psychology.*For 1915 and 1916.*

An advanced knowledge of general, experimental, and genetic Psychology. Study of the following works, those sections which are of special importance being indicated in the lectures:—Herbart, *Textbook in Psychology*—Mill, *Analysis of the Phenomena of the Human Mind*—Lotze, *Metaphysic*, Bk. III. (Psychology)—James, *Principles of Psychology*—Kulpe, *Outlines of Psychology*—Baldwin, *Mental Development*—Stout, *Analytic Psychology*.

SCHOLARSHIPS in the Department of Philosophy, open 1914-15—Baxter (Sir David), p. 246; Ferguson, p. 250; Hamilton, p. 252; Vans Dunlop in *Logic and Metaphysics*, p. 260.

POLITICAL ECONOMY.**Ordinary Course.**

PROFESSOR NICHOLSON.

The Class meets daily (except Saturday) from 9 to 10 during the Autumn and Spring Terms.

The Course embraces two half-courses qualifying for Graduation in Arts and for Graduation in Law (see under Faculty of Law), and for B.Sc. in Agriculture.

Arrangements are made for tutorial instruction in small groups as part of the regular work of the Class (compulsory).

In connection with the Lectures students are expected to read the Professor's *Elements of Political Economy* and the portions indicated in the Lectures of Mill's *Political Economy*, books i.-iii. ; and of Marshall's *Economics of Industry* ; Smith's *Wealth of Nations*, book iv. ; and the Professor's *Treatise on Money*, 6th edition. For fuller treatment of the subjects of the Lectures students may consult the Professor's *Principles of Political Economy*, books i.-iii.

The first half of the Course (in the Autumn Term) will embrace the subjects corresponding to books i. and ii. of the Professor's *Elements*.

1. SCOPE AND METHODS OF POLITICAL ECONOMY.—Analysis of Fundamental Conceptions, Wealth, Utility, Total and Marginal Utility, Capital, Labour, etc.

2. PRODUCTION OF WEALTH.—Meaning of Production—Agents of Production—Land, Labour and Capital—Efficiency of Labour—Division of Labour—Organisation of Industry—Production on a Large and Small Scale—Accumulation of Capital—Growth of Population—Limits to the Production of National Wealth.

3. DISTRIBUTION OF WEALTH.—Private Property—Socialism—Land Tenures—Wages—Profits—Rents—Combinations of Labour and Capital.

The second half of the Course (in the Spring Term) includes the subjects treated in the *Elements*, books iii.-v., and in the corresponding portions set of Adam Smith and Mill.

4. EXCHANGE.—Theory of Value—Demand and Supply—Cost of Production—Money—Banking Credit—Rate of Interest—Commercial Crises—Foreign Trade—Free Trade—Foreign Exchanges.

5. PRINCIPLES OF GOVERNMENTAL CONTROL AND TAXATION.—An Elementary Treatment of the Leading Principles.

Three written Examinations and One Essay. Essay voluntary.

Elementary Course—Summer Term.

JAMES B. GUILD, M.A., *Lecturer.*

(Tuesdays, Thursdays, and Fridays, 9 to 10 A.M.)

A Tutorial Course of twenty lectures, intended as preparatory for, or supplementary to, the Ordinary Class. Fee, £1, 1s.

Students who have taken this Course pay a fee of only £3, 3s. for the Ordinary Course in the following session ; and, if they have duly performed the work of the Class, may be exempted from tutorial instruction in the Ordinary Class. The Course may also be taken, without extra fee, by those who have already taken the Ordinary Course.

In the Summer Term, an Honours Half-Course is held in Statistics and Mathematical Economics, and students are recommended to take this, and also the Courses in Mercantile Law and Palæography, *after* the Ordinary Class of Political Economy. See various Courses.

The Subjects of Examination in Political Economy for the Ordinary Degree of M.A. are as follows :—

The Professor's Lectures and *Elements of Political Economy* ; and the portions indicated in the lectures of Mill's *Principles of Political Economy*, books i.-iii. ; Marshall's *Economics of Industry* (new edition) ; Adam Smith's *Wealth of Nations*, book iv. ; Professor Nicholson's *Money and Monetary Problems* (6th edition) ; *The Treatise on Money*.

Honours Course.

(Fifty Lectures, 11 to 12, Mondays, Tuesdays, and Thursdays during the Autumn and Spring Terms.)

The Course will be devoted partly to more difficult Economic Theories and present practical problems not taken up in the ordinary class, and partly to the special treatment of Economic Progress, Economic Functions of Government, and Public Finance.

In connection with the lectures, Marshall's *Principles*, vol. i., the Professor's *Principles*, vol. iii., will, as far as possible, be used as textbooks, and references given to other special works.

The Subjects of Examination in Political Economy for the Degree of M.A. with HONOURS IN ECONOMIC SCIENCE are given on page 194.

ECONOMIC HISTORY.**Ordinary Course.**

J. F. REES, M.A., *Lecturer.*

This Course qualifies for graduation, and will consist of seventy-five lectures, to be given on Mondays, Wednesdays, and Fridays, at 5 o'clock, in the Autumn, Spring, and Summer Terms. The Class will also meet occasionally in sections for tutorial instruction, at times fixed to suit the convenience of members.

The Course will embrace the following subjects :—

1. The influence of geography on economic history ; The economic factor in ancient history ; Economic organisation of primitive peoples.

2. The Roman occupation ; The free village community ; Tribal organisation as affected by conquest, settlement, and the assimilation of races ; The tribal system in Wales ; The dependent village ; Growth of the manor ; Feudalism.

3. The rise of towns ; Guilds and the evolution of classes in towns ; The mediæval monarchy ; Royal finance and the alien capitalist ; The influence of the Church.

4. The decay of the manor ; Black death and peasants' revolt ; The decay of the guilds ; Cloth manufactured in the country ; Growth of trade ; The staple ; End of the Middle Ages.

5. National economy of the Tudors ; Corn Laws ; Enclosures ; Encouragement of shipping ; Industrial regulation ; Poor relief ; Mining ; Merchant companies ; Elizabethan legislation.

6. Stuart mercantilism ; Monopolies and State enterprise ; Joint-stock in commerce and industry ; State regulation ; Comparison with French mercantilism ; Excise ; Banking ; Landed interest.

7. The Industrial Revolution ; Inventors and captains of industry ; Roads and canals ; Trade Unions ; Laissez-faire ; Large farming and inclosures ; Colonial policy ; Protection ; National Debt.

8. World economy ; Increase of population ; Free trade ; Combination laws ; Poor law ; Factory Acts ; Railways ; Joint-stock enterprise ; Trusts ; Economic development of the United States.

Books recommended.—Townsend Warner's *Landmarks of Industrial History*, or H. O. Meredith's *Outlines of Economic History* may be read, together with A. Smith's *Wealth of Nations*, book iii., and Nicholson's *Rents, Profits, and Wages in Agriculture*, as an introduction to the subject. Cunningham's *Growth of English Industry and Commerce* will be used throughout, and portions prescribed for special study. For special periods or subjects, portions of the following :—Seebohm's *Village Community*, chaps. i.-v. ; Ashley's *Economic History*, part 2, chaps. i., v., and vi. ; and Bogart's *Economic History of the United States*.

The Subjects of Examination in Economic History for the Ordinary Degree of M.A. are as follows :—

The general Economic History of the British Isles from 55 B.C. to the present day, together with that of the United States in the nineteenth century.

Books recommended.—Townsend Warner's *Landmarks of Industrial History* ; Cunningham's *Growth of English Industry and Commerce* (portions prescribed in the lectures) ; Ashley's *Economic History*, pt. ii. chaps. 1, 5, and 6 ; Nicholson's *Rents, Wages, and Profits in Agriculture* ; Adam Smith's *Wealth of Nations*, book iii. ; and Bogart's *Economic History of the United States*.

Honours Course.

A full Honours Course of fifty lectures on Economic History for graduation with honours in Economic Science or in History will be given on Mondays, Wednesdays, and Fridays, at 3 o'clock, in the Autumn and Spring Terms. There will be sectional meetings of the class (in addition to the lectures) arranged at intervals for tutorial instruction.

The Course will embrace the following subjects :—

The Credit Economy. The monopoly of the Bank of England. Commercial crises. The National Debt. Reform of Taxation. The Budget.

The industrial revolution. The agricultural revolution. Trade Unions. The economic development of Scotland. The economic history of Ireland.

The growth of the philanthropic spirit. Pauperism and the Poor Laws. Factory legislation. Abolition of Slavery.

Trade and trade policy. Mercantilism and the trading companies. The Corn Laws and the Navigation Laws. The Free

Trade Movement. Commercial Treaties. The Protectionist reaction.

The old Colonial system. The revolt of the American Colonies. Colonial policy in the 19th century. The economic development of Canada. The economic problems of India. The West Indies since the abolition of slavery. The growth of imperial sentiment since 1880.

Books recommended.—Andreades' *History of the Bank of England*. Conant's *History of Modern Banks of Issue*. Dowell's *History of Taxation and Taxes*. D'Avenel's *Découvertes d'Histoire Sociale*. Graham's *Social Life of Scotland in the Eighteenth Century*. Murray's *Commercial Relations between England and Ireland*. Webb's *History of Trade Unionism*. Webb's *English Poor Law Policy*. Fuchs' *Trade Policy of Great Britain*. Morison's *Industrial Organisation of an Indian Province*. Morison's *Economic Transition in India*. Dilke's *Problems of Greater Britain*. Cunningham's *Growth of English Industry and Commerce*.

The Subjects of Examination in Economic History for the Degree of M.A. with HONOURS IN ECONOMIC SCIENCE are given on page 194; and the Subjects for HONOURS IN HISTORY on page 231.

STATISTICS AND MATHEMATICAL ECONOMICS.

G. A. CARSE, M.A., D.Sc., *Lecturer*.

Monday, Tuesday, and Thursday, 4 to 5, or at times to be arranged. Summer Term. Qualifying as a half-course for Economics Honours.

The Course will comprise about twenty-five lectures, and will cover the following :—

STATISTICS.

Scope and meaning of Statistics.

Method and application of Statistics.

Groups and series and their graphic representation.

Sources of data required in Statistics.

Averages—the arithmetic average, the weighted average, the geometric mean, the mode, the median.

Graphic method, curves—periodic, logarithmic, etc.

Empirical formulas.

Interpolation.

Accuracy.

The law of error and its application.

Probable errors for independent observations.

Application of statistical methods to problems of trade, production, population, etc., and to problems in Sociology.

Elements of the theory of correlation and calculation of the co-efficient of correlation.

Books recommended.—Bowley, *Elements of Statistics*; various memoirs in the Journal of the Royal Statistical Society.

MATHEMATICAL ECONOMICS.

Students are expected to have a working knowledge of Nicholson's *Elements of Political Economy*.

Mathematical treatment, both by geometric and algebraic methods, of questions of utility, demand and supply, production, monopolies, taxation, trade, etc

References will be given to the treatment of Mathematical Economics by Cournot, Pareto, Edgeworth, Walras, Marshall, and others.

The Subjects of Examination in Statistics and Mathematical Economics for the Degree of M.A. with HONOURS IN ECONOMIC SCIENCE are given on page 194.

POLITICAL SCIENCE . . .	See page 228
GEOGRAPHY (ECONOMIC) . . .	" 215
MERCANTILE LAW . . .	" 234
PALÆOGRAPHY . . .	" 220

The Examination work in these subjects for the Degree of M.A. with HONOURS IN ECONOMIC SCIENCE is given below.

HONOURS EXAMINATION IN ECONOMIC SCIENCE.

Of the following subjects of Examination candidates must take Nos. i., ii., and iii., and one of the subjects under iv.

- i. Political Economy (general and set subjects to be varied from time to time), three papers.
- ii. Economic History (general and set subjects to be varied from time to time), three papers.
- iii. Political Science, one paper.
- iv. (a) Statistics and Mathematical Economics, one paper.
 (b) Geography, Economic (as in syllabus for the Honours Course), one paper.
 (c) Mercantile Law (set subjects), one paper.
 (d) Palæography, one paper.

Questions may be set in any of the papers involving a knowledge of French and German.

Candidates must take British History as one of the ordinary subjects.

Subjects for 1915 and 1916.

Political Economy.

An advanced knowledge of Economic Theory. Special knowledge of the Economic Functions of Government and Public Finance.

Books recommended.—Nicholson's *Principles of Political Economy*; Marshall's *Principles of Economics*, vol. i. (5th edition); Keynes' *Scope and Method of Political Economy*; Bastable's *Theory of International Trade*; Clare's *Foreign Exchanges*; Withers' *Meaning of Money*; S. and B. Webb's *Industrial Democracy*; J. W. Jenks' *The Trust Problem*; Macrosty's *British Trusts*; Adam Smith's *Wealth of Nations*, bk. v.; Sidgwick's *Political Economy*, bk. iii.; Bastable's *Public Finance*; J. S. Mill's *Political Economy*, bk. v.; Seligman's *Income Tax*; R. C. Fay's *Co-operation at Home and Abroad*.

Economic History.

For 1915-1916.

1. The General Economic History of the British Isles.
2. The Economic History of the British Isles and the Empire (1760-1910).

Books recommended.—Cunningham's *Growth of English Industry and Commerce*; Seebohm's *Village Community*, chaps. i.-v.; Vinogradoff's *Growth of the Manor*; Ashley's *Economic History*, pt. ii.; Unwin's *Industrial Organisation in the 16th and 17th Centuries*; D'Avenel's *Découvertes d'Histoire Sociale*; Leonard's *Early History of English Poor Relief*; Webb's *English Poor Law Policy*; Webb's *History of Trade Unionism*; Hutchins and Harrison's *History of Factory Legislation*; Nicholson's *History of the English Corn Laws*; Morison's *Industrial Organisation of an Indian Province*; Conant's *History of Modern Banks of Issue*; Ashley's *Surveys, Historic and Economic*; Fuchs' *Trade Policy of Great Britain*.

Political Science.

(Same as for Honours in History.)

Statistics and Mathematical Economics.Subjects of the lectures, and Bowley's *Elements of Statistics*, part i.**Geography.**

The following parts of the Lecturer's *Handbook of Commercial Geography*, latest edition:—The Introductions; the section on the General Facts relating to the Production, Distribution, and Exchange of Commodities; the sections on the Principal Commodities, and pp. 213 to the end; and also on chaps. xiii.-xix. inclusive of Partsch's *Central Europe* (Frowde).

Mercantile Law.

Candidates will be examined on the subjects dealt with in the Lectures; also on Mitchell on the *History of the Law Merchant*, and Smith's *Compendium of Mercantile Law*.

Palæography.

(For subjects, see under Courses.)

BURSARY in the Department of Economics --**Lanfine**, p. 275.

THEORY AND HISTORY OF EDUCATION.

PROFESSOR DARROCH and MR JAMES DREVER, M.A., B.Sc.,
Lecturer.

The Class meets daily from 9 to 10 A.M. during the Autumn and Spring Terms. Two of the Class hours per week will be devoted to tutorial work, which is obligatory on all students.

During the Summer Term the Class meets on Mondays, Wednesdays, and Fridays, from 9 to 10 A.M.

The work of the Course will embrace a study of the principles underlying modern Educational theory and practice. During the Autumn Term the lectures will be mainly devoted to a study of the various theories of the end and method of Moral Education. In the Spring Term, the work of the Class will be chiefly concerned with the discussion of the principles underlying Intellectual Education. In the Summer Term, the lectures will embrace a study of the Educational principles of the chief writers from the Renaissance down to the present time.

For the first part of the Course, students require to read M'Dougall's *Social Psychology* and Herbert Spencer's chapter on *Moral Education*. For the second part of the Course:—Dewey's *Educational Essays* (ed. by Findlay), and Bagley's *The Educative Process*. For the third part, either Quick's *Essays on Educational Reformers* or Laurie's *Educational Opinion since the Renaissance*.

Advanced Course.

A Course of fifty lectures will be given in this subject. The Class will meet on Mondays, Wednesdays, and Fridays during the Autumn and Spring Terms at 11 A.M.

The first part of the Course will deal with Greek and Roman systems and theories of Education. The second part of the Course will deal with modern theories of Education, especially with the doctrines of Rousseau, Froebel, Herbart, and Herbert Spencer.

Books prescribed.—Plato's *Republic*, book ii. 366 to end of book iv. and book vii.; Aristotle's *Ethics and Politics* (Selections as given in Professor Burnet's *Aristotle on Education*); Quintilian's *Institutes of Oratory*, books i., ii., x., xi., and xii.; Rousseau's *Emile*, books i.-iii.; Froebel's *The Education of Man* (I. E. Series); Herbart's *Science of Education* (Felkin's translation); Herbert Spencer's *Education*.

Either half of the Course may be taken separately. Fee for half-course, £2, 2s.

Summer Session.

MODERN EDUCATIONAL SYSTEMS AND PROBLEMS.

JAMES DREVER, M.A., B.Sc., *Lecturer*.

This Class meets during the Summer Session on Tuesdays and Thursdays, at an hour to be afterwards arranged. The Course, which is largely a Seminar Course, consists of lectures and discussions on the secondary school systems of Scotland, England, France, Germany, and America, and is based on the Board of Education *Special Reports*, and De Garmo's *Principles of Secondary Education*.

The Subjects of Examination in Education for the Ordinary Degree of M.A. are as follows :—

Theory and Art.—Subjects of examination : Lectures of the Professor ; Rousseau's *Emile*, books i.-iii. ; Laurie's *Language and Linguistic Method in the School* ; Dewey's *Educational Essays* (ed. by Findlay).

For the Theory of Education, students may, in addition to the lectures of the Professor, consult Laurie's *Institutes of Education* and Bagley's *The Educative Process*.

History.—A general knowledge of the History of Education from the Renaissance to the present day, with a more particular knowledge of the writings of Rousseau, Fröbel, and Pestalozzi.

III. Department of Science.

MATHEMATICS.

PROFESSOR E. T. WHITTAKER, M.A., Sc.D., F.R.S., assisted by
CHARLES TWEEDIE, M.A., B.Sc., DAVID GIBB, M.A., B.Sc.,
and * * * Lecturers in Mathematics ;
and E. M. HORSEBURGH, M.A., B.Sc., Assoc.M.Inst C.E.,
Lecturer in Technical Mathematics.

(a) First Ordinary Course.

PROFESSOR WHITTAKER and LECTURERS.

The Class meets daily from 9 to 10 during the Autumn and Spring Terms. Two of the Class hours per week will generally be devoted to Tutorial work, which is obligatory on all members of the Class.

During the Summer Term the Class meets on Mondays, Wednesdays, and Fridays, from 9 to 10.

The work of the whole Course embraces Geometry, Euclidian Projective and Descriptive ; Algebra ; Trigonometry ; Elements of Co-ordinate Geometry and Graph Tracing.

Students who have attained a satisfactory standard in the work of the Autumn and Spring Terms will be exempted from attendance during the Summer Term, provided they give reasons for exemption which are satisfactory to the Senatus.

(b) Second Ordinary Course.

PROFESSOR WHITTAKER and LECTURERS.

This Class meets from 12 to 1 daily during the Autumn and Spring Terms, and from 12 to 1 on Mondays, Wednesdays, and Fridays during the Summer Term. Tutorial work as in the First Ordinary Course.

The work of the Course embraces Algebra and Theory of Equations, Spherical Trigonometry, Co-ordinate and Descriptive Geometry, and Elementary Differential and Integral Calculus.

(c) First Technical Course.

MR HORSBURGH.

This Class meets daily from 9 to 10 during the Autumn and Spring Terms. Two of the Class hours per week will generally be devoted to Tutorial work, which is obligatory on all members of the Class.

During the Summer Term the Class meets on Mondays, Wednesdays, and Fridays from 9 to 10.

The work of the whole Course embraces:—Elementary Algebra, Trigonometry (with special reference to Surveying), Elementary Co-ordinate Geometry and Graph Tracing, Use of Graphic Methods, an Introduction to the Differential and Integral Calculus, Simple Practical Applications of these subjects, chiefly from the Engineer's point of view.

(d) Second Technical Course.

MR HORSBURGH.

This Class meets daily from 11 to 12 during the Autumn and Spring Terms.

The work of the Course embraces:—Use of Graphic Methods, Spherical Trigonometry (with reference to Geodesy and Navigation), Elementary Co-ordinate Geometry, Differential and Integral Calculus, Simple Differential Equations, Practical Applications of these subjects, chiefly from the Engineer's point of view.

(e) Intermediate Honours Course.

PROFESSOR WHITTAKER and LECTURERS.

The Class meets from 11 to 12 daily during the Autumn and Spring Terms, and from 11 to 12 on Mondays, Wednesdays, and

Fridays during the Summer Term. At least one hour per week is devoted to Tutorial work.

The Course embraces Solid Geometry, Differential and Integral Calculus, and Elementary Differential Equations.

(f) Advanced Honours Course.

PROFESSOR WHITTAKER and LECTURERS.

The Class meets from 10 to 11 daily during the Autumn and Spring Terms.

The Course is devoted to the Higher Mathematical Analysis, both practical (in the Mathematical Laboratory) and theoretical: including Interpolation, Method of Least Squares, Construction and Use of Mathematical Tables, Definite Integrals, Differential Equations, Fourier's Analysis, Harmonic Analysis, Elliptic Functions, Solid Geometry, and Map-making. Special attention is given to those parts of the subject which are of frequent application in Natural Philosophy.

(g) Function Theory or other Optional Subject for the Final Honours Examination.

MR GIBB.

The Class meets during the Summer Term from 11 to 12 on Mondays, Wednesdays, and Fridays.

(h) Post-Graduate and Research Lectures.

The Professor lectures to the Research Students and Post-graduate workers on current developments in Mathematical Science. The principal aim of the lectures is to bring into prominence topics suitable for original investigation. The hours of lecture are arranged at the beginning of the session.

Double Course for the Ordinary Degree of M.A.

The following combinations of the above Courses are recognised as constituting a *Double Course* in Mathematics for the ordinary degree of M.A., the Courses to be taken in the order in which they are named.

- I. (a) and (b).
- II. (a) and (c).
- III. (c) and (d).
- IV. (b) and (e).
- V. (b) and (d).

Students who intend to proceed to Honours in Mathematics and Natural Philosophy are recommended to take Course (b) in their first year, or—if their previous reading in Mathematics has

not included the subject-matter of Course (a)—to take Courses (a) and (b) together in their first year. They can then proceed to Course (e) in their second year.

Textbooks.

The Mathematical Library, adjacent to the larger Mathematical Lecture-Theatre, contains a collection of textbooks on all branches of Mathematics. Students are desired to consult the Professor or Lecturers regarding the textbooks suitable for their own reading.

The Subjects of Examination in Mathematics for the Ordinary Degree of M.A. are as follows:—

For subjects see under Courses (above).

Candidates will be examined on the subjects of the Courses which they have taken, viz. :—

Course.	Examination.
(a) Examination for Ordinary Degree, First Course.	
(b) Do.	do. Second do.
(c) Examination in Mathematics for Engineering, First Paper.	
(d) Do.	do. Second do.
(e) The Second and Third Papers in the Intermediate Honours Examination.	

Students who attain, in the terminal class examinations, a certain standard which is determined by the Professor of Mathematics and the Additional Examiner with the approval of the Senatus and University Court, are exempted from the examination in Mathematics for the Ordinary Degree of M.A.

At present the standard in question is the standard for a second class certificate.

The Subjects of Examination in Mathematics for the Degree of M.A. with HONOURS IN MATHEMATICS AND NATURAL PHILOSOPHY are given on page 205.

NATURAL PHILOSOPHY AND APPLIED MATHEMATICS.

PROFESSOR BARKLA and DR KNOTT.

Ordinary Natural Philosophy Class.

PROFESSOR BARKLA, DR CARSE, MR BELL, and MR MACKIE.

Autumn, Spring, and Summer Terms. Daily, 11 to 12 o'clock. Qualifying as a full Course for the M.A. degree (see p. 201 for Double Course).

The work of the Class is conducted by means of lectures, practical laboratory exercises, and tutorial instruction.

The *Lecture Course* includes :—Elementary Dynamics of Solids and Liquids, Properties of Matter, Electricity and Magnetism, Heat, Light, and Sound.

(The Class will be divided into two sections during the Autumn and Spring Terms, to enable those with previous knowledge of the subjects of Dynamics, Electricity, and Heat to attend lectures on more advanced portions of the subjects. In the award of Certificates of Merit, the Upper and Lower Divisions of the Class are regarded as distinct Classes.)

LECTURES.—Autumn, Spring, and Summer Terms. Mondays, Wednesdays, and Fridays, 11 to 12, by the Professor and Dr Carse.

The *Junior Practical Physics Course* of 50 hours must be attended by all students of the Natural Philosophy Class. Times to be arranged.

Courses of *Tutorial Instruction* are conducted by Mr Bell and Mr Mackie in connection with the Lecture Courses. The Tutorial Classes meet from 11 to 12 on days not occupied by lectures, and in addition (with the object of diminishing the size of the classes) on other days and at other hours which suit the convenience of students. Students may attend two tutorial meetings per week.

A Certificate of Merit in this Course exempts from the Degree Examination. The standard required is determined by the Professor and the Additional Examiner acting together

Double Course in Natural Philosophy for Ordinary M.A. Degree.

The following combination of Courses is recognised as constituting a Double Course in Natural Philosophy :—

Ordinary Natural Philosophy, followed by the Intermediate Honours Courses in Applied Mathematics, Heat, and Electricity. (The standard required will be lower than that for Intermediate Honours.)

For Subjects of Examination in Natural Philosophy for the Ordinary Degree of M.A., see Courses above.

Exemption from the M.A. Examination is granted on the same conditions as in Mathematics (p. 200).

Intermediate Honours Courses.**Intermediate Honours Course in Analytical Dynamics.**

DR KNOTT.

Autumn Term. Mondays, Wednesdays, and Fridays, 9 to 10 o'clock. Qualifying as a half-course for M.A. Honours ; or as part of a Double Course in Natural Philosophy for the M.A. degree (see p. 201).

The lectures treat of the less advanced portions of the Dynamics of Particles, Rigid Solids, and Flexible Strings.

A knowledge of the Differential and Integral Calculus is assumed.

Intermediate Honours Course in Heat.

PROFESSOR BARKLA.

Spring Term. Mondays, Wednesdays, and Fridays, 9 to 10 o'clock. Qualifying as a half-course for M.A. Honours, and for M.A. Double Course (see p. 201).

The work of the Class consists of a Course of lectures on Heat, including Thermodynamics.

Intermediate Honours Course in Electricity.

DR CARSE.

Summer Term. Mondays, Wednesdays, and Fridays, 9 to 10 o'clock. Qualifying as a half-course for M.A. Honours, and, under conditions specified on p. 201, as part of a Double Course for M.A.

The Class work consists of lectures on Electricity and Magnetism, including some of the later developments of the conduction of Electricity through gases, and of the phenomena of radio-activity.

Intermediate Honours Course in Practical Physics.

DR MILNE.

Intermediate Honours Students are recommended to take a course of Senior Practical Physics, covering 100 hours' work in the Laboratory. Times to be arranged.

Final Honours Courses.

Final Honours Courses in Electricity.

PROFESSOR BARKLA.

- (1) Autumn Term. Mondays, Wednesdays, and Fridays
12 to 1 o'clock.
- (2) Spring Term. Tuesdays and Thursdays, 11 to 12 o'clock.
Qualifying as two half-courses for M.A. Honours.

Final Honours Course in Physical Optics.

DR J. R. MILNE.

Autumn and Spring Terms. Tuesdays and Thursdays, 12 to 1 o'clock. Qualifying as a half-course for M.A. Honours.

The Course consists of at least 25 lectures, with optional meetings of the Class for demonstrations.

Final Honours Course in Advanced General Physics.

DR CARSE.

Summer Term. Mondays, Wednesdays, and Fridays, 10 to 11 o'clock. Qualifying as a half-course for M.A. Honours.

Final Honours Course in Practical Physics.

DR MILNE.

Final Honours Students are recommended to take a Course of Advanced Practical Physics, covering 100 hours' work in the laboratory. Times to be arranged.

Final Honours Course in Advanced Dynamics.

DR KNOTT.

Spring Term. Mondays, Wednesdays, and Fridays, 12 to 1 o'clock. Qualifying as a half-course for M.A. Honours.

The work of the Class consists of a Course of lectures on the more advanced parts of Dynamics, including Elasticity or Hydrodynamics. Hydrodynamics will be a principal subject of study in 1915.

A knowledge of the subjects of the Intermediate Honours Course in Applied Mathematics is assumed.

**Final Honours Course in Quaternions in their
Physical Applications.**

DR KNOTT.

Summer Term. Mondays, Wednesdays, and Fridays, at 9 o'clock. Qualifying as a half-course for M.A. Honours.

In this Course of lectures on the Dynamical and Physical Applications of Quaternion or Vector Analysis, attention is given to those branches of Natural Philosophy for which this mathematical method is specially suitable, *e.g.*—Central Forces, Strains, the general theory of the Potential Function, Magnetism, Electrodynamics, Hydrodynamics, etc. Students proposing to take the Course should read beforehand chapters i. to v. of Kelland and Tait's *Introduction to Quaternions* (third edition), or chapters i. to iii. of Tait's *Quaternions*.

APPLIED MATHEMATICS.

C. G. KNOTT, D.Sc., *Lecturer.*

There are three Honours Courses in Arts in Applied Mathematics, as detailed in the preceding Section (Natural Philosophy and Applied Mathematics):—

- i. Analytical Dynamics (Intermediate Honours);
- ii. Advanced Dynamics, etc. (Advanced Honours);
- iii. Quaternions (Advanced Honours);

all qualifying for the M.A. Honours Degree in Mathematics and Natural Philosophy; also as part of a second Course in Natural Philosophy.

The Subjects of Examination in Natural Philosophy for the Degree of M.A. with HONOURS IN MATHEMATICS AND NATURAL PHILOSOPHY are given below.

HONOURS EXAMINATION IN MATHEMATICS AND NATURAL PHILOSOPHY.

The Honours Examination in this group is divided into two parts, the Intermediate Honours Examination and the Final Honours Examination, which may or may not be taken at the same time.

All the subjects of the Intermediate Examination are obligatory on every candidate for Honours, but in the Final Examination a certain amount of selection and specialisation is allowed.

INTERMEDIATE HONOURS EXAMINATION.

Admission.—Any student may enter for the Intermediate Honours Examination not earlier than the end of his second Academic year.

Subjects.—The subjects of the examination correspond generally to the subjects of the courses in Mathematics and Natural Philosophy, up to and including the Intermediate Honours Classes, that is to say—

I. In Pure Mathematics.

Three papers will be set—

1. A paper on Algebra and Trigonometry, Plane and Spherical.
2. A paper on Geometry, Synthetic, Projective, Descriptive, and Analytical.
3. A paper on Differential and Integral Calculus, and Elementary Differential Equations.

The questions will be set more from the point of view of practical applications, and less from the point of view of abstract theory.

II. In Natural Philosophy, including Applied Mathematics.

Three papers will be set, one in each of the following subjects :—

For 1915.

1. Analytical Dynamics.
2. Thermodynamics.
3. Experimental Physics.

For 1916.

1. Analytical Dynamics.
2. Heat.
3. Electricity.

Note.—In 1915, any candidate who so desires may take the subjects as set for 1916.

Pass in the Intermediate Honours Examination.

A student who has taken the Intermediate Honours Examination separately and satisfied the Examiners may take his Final Honours Examination separately in a succeeding year; if he has failed in his Intermediate Honours Examination, he must take this examination again, either separately or along with his Final Honours Examination.

FINAL HONOURS EXAMINATION.

Admission.—A student who has completed the attendances required in Section XI. (4) of the (New) Arts Ordinance (p. 127), and passed in the two ordinary subjects required by this Ordinance and by the Additional Regulations, may enter for his Final Examination.

Subjects.—The papers in this examination will be as follows :—

I. In Pure Mathematics.

1. A paper on the more advanced parts of Algebra (including Theory of Equations, Determinants, Invariants), Trigonometry, Plane and Spherical.
2. A paper on Geometry, Projective, Analytical, Descriptive, and Differential.
3. A paper on Differential and Integral Calculus (including Infinite Series and Finite Differences).
4. A paper on Differential Equations and Higher Analysis.
5. A paper on an Optional Subject, selected from one of the following: Function Theory, Theory of Elliptic Functions, Higher Plane Curves, or other special subject which the candidate may profess, with the permission of the Examiners, after notice of at least six months before the date of entry for the examination.

II. In Natural Philosophy, including Applied Mathematics.

For 1915.

A paper on each of the following subjects :—

1. Advanced Dynamics (including Elasticity and Hydrodynamics, one of which must be professed by the candidate).
2. Electrostatics (including Magnetism).
3. Electrodynamics (including Electromagnetism).
4. Quaternions and its Physical Applications.
5. Advanced Experimental Physics.
6. Physical Optics.
7. One branch of Practical Physics, such as Capillarity, Thermal Conduction, etc., in which the candidate has submitted to the Examiners a thesis, approved by them, embodying the results of original investigation.

A candidate must take six papers in all, with a minimum of two from each of the Departments I. and II. If a candidate takes only two papers in Natural Philosophy, one of these must be 1.

Note.—In 1915, any candidate who so desires may take the subjects as set for 1916, below.

For 1916.

A paper on each of the following subjects :—

1. Advanced Dynamics (including Elasticity and Hydrodynamics, one of which must be professed by the candidate.
2. Quaternions and its Physical Applications.
3. Advanced General Physics.
4. Physical Optics.
5. Electricity I.
6. Electricity II.

A candidate must take six papers in all, with a minimum of two from each of the Departments I. and II. These must include paper 5 in Natural Philosophy. If a candidate takes only two papers in Natural Philosophy, one of these must be 1.

In both Mathematics and Natural Philosophy, properly authenticated records of laboratory work or original research may be submitted by the candidate to the Examiners as additional evidence of proficiency, and if submitted will be taken into consideration.

SCHOLARSHIPS, etc., in the Department of Mathematics and Natural Philosophy, open 1914-15—**Arnott** (Neil), p. 245 ; **Drummond**, p. 249 ; **Ferguson**, p. 250 ; **Nichol**, p. 255.

BURSARIES, **Fraser** (Donald), p. 269 ; **Newton**, p. 280.

ASTRONOMY.

PROFESSOR SAMPSON.

The Course is the same as the Intermediate Course in the Faculty of Science, and consists of sixty lectures, and, on different days, twenty meetings of two hours each for Observatory work.

The lectures are delivered at the University on Tuesday, Wednesday, and Thursday, at 3 P.M., and the Class meets on Friday at the Royal Observatory, Blackford Hill, from 5 to 7 P.M., for practical exercises.

The lectures will cover General Astronomy. Each question will be treated first descriptively in its historical setting ; the development of ideas will be followed with more or less detail till it leads to the present position and approximate or exact

calculation. The problems will include those of determining the true relations to one another of earth, sun, moon, and planets, and the stellar system; terrestrial questions, as refraction, the earth's figure, parallax, determination of time and place; the tides; Kepler's laws and their interpretation; solution of Kepler's problem; determination of the elements of the sun's apparent orbit; elements of the lunar and planetary orbits and orbits of comets; luni-solar cycles; the calendar; eclipses; the stellar system, precession and nutation, stellar parallax, aberration, proper motion. The dynamical aspect of certain of these questions will also be dealt with. Students will require a fair knowledge of Spherical Geometry, and of the elements of the Calculus.

The Class exercises will include a considerable proportion of numerical calculation, and will deal with the use of the *Nautical Almanac*.

The practical work will be designed, as far as possible, to show how the measures necessary for theory are actually realised with increasing accuracy. It will cover visual knowledge of the stars, use of star maps and globes, naked-eye observations of the moon's path; means of estimating intervals of time and angle; construction and use of clock, sextant, theodolite, transit circle, and equatorial; determination of sidereal and solar time, latitude, and the co-ordinates of a star.

The Subjects of Examination in Astronomy for the Ordinary Degree of M.A. are as follows:—

The class lectures, and those parts of Berry's *History of Astronomy*, Young's *General Astronomy*, and Ball's *Spherical Astronomy* that deal with the same subject-matter. Elementary Astrodynamics. Practical exercises.

CHEMISTRY.

First Lecture Course.

DR DOBBIN and PROFESSOR WALKER.

The Class meets on Mondays, Wednesdays, and Fridays from 10 to 11, during the three Terms. For Tutorial work, which is obligatory, the Class may be divided into two sections, which will meet on Tuesdays or Thursdays.

The lectures are mainly devoted to Elementary Inorganic Chemistry, embracing the more important metallic and non-metallic elements and their chief compounds, together with an introduction to Chemical Theory. Fee, £4, 4s.

First Laboratory Course.

This Course must be taken in conjunction with the First Lecture Course. It meets for two hours twice a week during three terms. The work will include simple inorganic preparations, the detection of the chief inorganic elements and compounds, and an introduction to Volumetric and Gravimetric Analysis. Fee, £4, 4s.

Second Lecture Course.

PROFESSOR WALKER and LECTURERS.

The Class will meet on Mondays, Tuesdays, and Wednesdays during all three Terms, from 10 to 11. In the Autumn Term Advanced Inorganic Chemistry, Chemical Theory, and Elementary Physical Chemistry will be taken up. In the Spring and Summer Terms the work will be devoted chiefly to Organic Chemistry. Fee, £4, 4s.

Second Laboratory Course.

During two Terms, 120 hours must be given to Laboratory work, which will include qualitative analysis, the preparation of a few typical inorganic and organic substances, the testing of organic substances, and simple quantitative estimations. Fee, £4, 4s.

The Subjects of Examination in Chemistry for the Ordinary Degree of M.A. are as follows:—

The candidates will be examined by papers and in the laboratory on the subjects of the courses which they have taken. (See above.)

NOTE.—The examinations for the First Course will be held in June and October. The examinations for the Second Course will be held in June and December.

ZOOLOGY.

PROFESSOR EWART.

First Course.*A.*—For Students beginning in Winter :—*(a)* Autumn Term.—Elementary Lecture Course, the same as for students of Science. Professor Ewart.*(b)* Spring Term. — Elementary Practical Course, as for students of Science. Professor Ewart and Assistants.*(c)* Summer Term.—Lectures and Laboratory Work on the Morphology of the Invertebrata. Dr J. H. Ashworth.*B.*—Students beginning in Summer (but students are *strongly advised* to begin in Winter) will take Elementary Lecture and Practical Courses in the Summer Term, followed by Comparative Embryology (Dr J. Beard) in the Autumn Term, or Morphology of the Vertebrata (Dr J. Beard) in the Spring Term, or Philosophical Biology and Genetics (Mr A. D. Darbishire) in the Autumn and Spring Terms, or Invertebrate Zoology (Dr J. H. Ashworth) in the following Summer Term.**Second Course.**

First Term.—Philosophical Biology.

Second Term.—Genetics.

Twenty hours lectures and thirty hours practical work in each of these terms.

Third Term —Either *(a)* for Teachers and those intending to specialise in Marine work.*Invertebrate Zoology, completing* (in the case of students beginning their first course in Winter, *vide (a) supra*) with the Third Term of the first course *a full course on the Invertebrata.* (Fee as before.)Or *(b)* for those likely to proceed to Tropical Countries, *Protozoology* and *Entomology.* Dr J. H. Ashworth.

The Subjects of Examination in Zoology for the Ordinary Degree of M.A. are as follows :—

(a) The General Principles of Biology.*(b)* The distinctive characters of the Invertebrate groups and the

structure, habits, etc., of *Amœba*, *Paramœcium*, *Hydra*, *Arenicola*, *Hirudo*, *Helix*, and *Nephrops*.

(c) The distinctive characters of the Vertebrate groups and the structure, habits, etc., of *Gadus*, *Raia*, *Rana*, *Columba*, and *Lepus*.

(d) A general knowledge of the orders of Vertebrata.

(e) The outlines of the development of *Amphioxus*, *Rana*, *Gallus*, and *Lepus*.

(f) The Geographical Distribution of Animals.

(g) A general knowledge of Wallace's Darwinism.

In addition to the above, the paper will include questions dealing with the work of the Third Term. Invertebrata for Summer 1913 will be Protozoa, Porifera, Coelenterata, and Vermes; for Summer 1914, Mollusca, Echinodermata and Arthropoda.

BOTANY.

PROFESSOR BAYLEY BALFOUR and R. C. DAVIE, M.A., B.Sc.

The Course is the Introductory Course in Botany in the Faculty of Science, as follows:—

This is the Three-Term Course for Students preparing for the M.A. or First Science Examination.

Autumn Term.—Lectures on Tuesdays and Thursdays at 2 P.M.

Practical Work in the Laboratory from 3 P.M. until 5 P.M.

Excursions are made during the Term.

During this Term a study is made of the Anatomy and Histology of Phanerogamic Plants and their elementary Physiology.

Spring Term.—Lectures on Tuesdays and Thursdays at 2 P.M.

Practical Work in the Laboratory from 3 P.M. until 5 P.M.

Excursions are made during the Term.

During this Term the life-histories of selected types of Cryptogamic Plants are studied.

Summer Term.—Lectures on Tuesdays and Thursdays at 2 P.M.

Practical Work in the Laboratory from 3 P.M. until 5 P.M.

Excursions are made during the Term.

The work during this Term deals with Phanerogamic Plants, particularly those represented in the British Flora.

Fee for the whole or any part of the Course, £6, 6s., and a Garden Fee of 5s.

For a Double Course the student may add to this Introductory Course the work of Course B, Intermediate ; with Courses D, Plant Physiology, and E, Bacteriology. (See under Faculty of Science.)

The Subjects of Examination in Botany for the Ordinary Degree of M.A. are as follows :—

The characteristic features of the following groups of the vegetable kingdom :—

Thallophyta ; Bryophyta ; Pteridophyta ; Spermatophyta.

The fundamental facts and principles of Organography, Physiology, and Geographical Distribution.

The life-history of the following plants :—Bacterium, Nostoc, Pleurococcus, a Diatom, Spirogyra, Vaucheria, Fucus, Callithamnion, Mucor, Cystopus, Saccharomyces, Eurotium, Peziza, Claviceps, Puccinia, Agaricus, Physcia, Pellia, Mnium, Sphagnum, Aspidium, Equisetum, Selaginella, Cycas, Pinus, Scilla, Capsella, Ulmus.

The characters of plants belonging to the chief British natural orders of Spermatophyta.

The Subjects of Examination in Botany after a Double Course are those of the Final Science Examination on the Intermediate Standard. (See under Faculty of Science.)

GEOLOGY, INCLUDING MINERALOGY.

PROFESSOR JEHU.

There are two Courses in this Subject, for details of which see under Courses in Pure Science. Each Course extends over Autumn, Spring, and Summer Terms.

(a) First Ordinary Course—4 to 5.

The Class meets on Mondays, Wednesdays, and Fridays during the Autumn and Spring Terms. During the Spring Term Laboratory Demonstrations on Mineralogy and Petrology are given on Tuesdays and Thursdays at the same hour.

During the Summer Term the Class meets on Tuesdays and Thursdays from 4 to 5 o'clock. Demonstrations on Palæontology are given on Wednesdays at the same hour.

Excursions take place on Saturdays (6 to 8 in number during the Autumn and Spring Terms, and 4 to 6 in number during the Summer Term).

The work of the Course is distributed as follows:—*Autumn Term*—Dynamical Geology. *Spring Term*—Mineralogy and Petrology, Tectonic Geology, Physiographical Geology. *Summer Term*—Stratigraphical or Historical Geology. Three Class Examinations are held—one in each term.

DR CAMPBELL, MR FINLAY, and PROFESSOR JEHU

(b) Second Ordinary Course

This Class meets on Mondays, Wednesdays, and Fridays, from 2 to 4 o'clock, during the Autumn and Spring Terms, and daily, from 1 to 2 o'clock, in the Summer Term.

The work of the Course is almost entirely practical, and embraces Mineralogy, Petrology, Palæontology, and the construction of Geological maps and sections.

There are three Examinations.

The Subjects of Examination in Geology for the Ordinary Degree of M.A. are as follows:—

1. *Dynamical Geology*.—The nature and operation of geological agents:—The Atmosphere, Rain, Terrestrial Waters, Ice, the Sea, Plants and Animals, Volcanoes, Movements of the Earth's Crust.

2. *Mineralogy*.—Characters of the chief rock-forming minerals.

3. *Petrology*.—Macroscopic and Microscopic Characters, Composition, Origin and Distribution of the more important Rocks.

4. *Structural Geology*.—Structure of Rock-masses, Inclination and Curvature of Rocks, Joints, Cleavage, Metamorphism, Faults, Overlap, Unconformity.

5. *Physiographical Geology*.—Origin of the present outlines of the Earth's surface.

6. *Palæontological Geology*.—Characters and distribution in time, of the more important Orders and Genera found fossil in Britain.

7. *Stratigraphical Geology*.—History of the Geological Systems of the British Islands.

GEOGRAPHY.

G. G. CHISHOLM, M.A., B.Sc., *Lecturer.*

Ordinary Course.

The Class meets on Monday, Wednesday, and Friday, 4 to 5, during the three terms of the year.

The Course embraces both lectures and practical work, and covers the following subjects :—

Scope of Geography. Its relation to other branches of study, especially Geology, Economics, and History.

Cartography. The more useful projections, considered with reference to their advantages for different geographical purposes, and their unavoidable defects. Conventional signs in Cartography.

Form of the Earth. Distribution of land and water. Oceanic circulation, horizontal and vertical.

Meteorology and Climatology. The typical climates of different parts of the world, and their significance in relation to vegetation and animal life.

Typical land-forms and their relation to rock structure, and the various agents that modify the form of the earth's crust and affect its value as the scene of human activity.

The modes in which the surface of the earth is modified directly and deliberately, as well as indirectly and unintentionally, by man's action.

Economic Geography. The nature of the chief industries in different regions as determined by local conditions and the circumstances of the time. Conditions determining the situation and importance of towns.

Special attention will be given in this part of the course to the Mediterranean region and Central and Western Europe, including the British Isles.

Political Geography. Growth of states and determination of national and administrative boundaries. Relation of political and economic conditions.

Textbooks and Books of Reference. — Mill's *International Geography* (Macmillan); Mill's *Realm of Nature* (Murray); Taylor and Unstead's *Essentials of World Geography* (Philip); H. N. Dickson, *Maps: How They are Made, and how to Read Them*

(Bacon); *Smaller Commercial Geography* and portions of the *Handbook of Commercial Geography*, by the Lecturer (both Longmans); A. W. Andrews, *Textbook of Geography* (Arnold); Mackinder's *Britain and the British Seas* (2nd ed., Clarendon Press); Hogarth's *The Nearer East* (Frowde); portions of Stanford's *Compendium of Geography and Travel* (volumes on Europe); L. W. Lyde, *The Continent of Europe* (Macmillan).

The Subjects of Examination in Geography for the Ordinary Degree of M.A. are as follows:—

The Class Lectures and Practical Work done in class, and the relevant portions of Mill's *Realm of Nature*, Hogarth's *Nearer East*, the Lecturer's *Handbook of Commercial Geography* (latest edition), and the volumes on "Europe" in Stanford's *Compendium of Geography and Travel*.

Honours Course.

Spring and Summer Terms.

(Mondays, Wednesdays, and Fridays, from 3 to 4.)

The Course will comprise at least fifty meetings of the Class either for lectures or for the discussion of students' essays. The lectures will include a few devoted to Cartography, more especially the cartographic representation of economic data, but for the most part will offer an analysis of the economic and commercial development of some of the leading commercial countries of the world during the last forty or fifty years, with special reference to the geographical conditions that have influenced that development. The analysis will be based on an examination of the statistical data in the lecturer's *Handbook of Commercial Geography*. The students' essays will involve the handling of statistics, and students will be expected to be familiar with elementary statistical methods, as treated, for example, in Bowley's *Elementary Manual of Statistics* (Macdonald & Evans), part i. and chs. iii.-vi. of part ii.

Books recommended in addition to those mentioned.—Partsch, *Central Europe* (Clarendon Press); J. Russell Smith, *Industrial and Commercial Geography* (New York: Henry Holt); Brigham,

Commercial Geography (Boston : Ginn & Co.) ; Gregory, Keller, and Bishop, *Physical and Commercial Geography* (Boston : Ginn & Co.).

The Subjects of Examination in Economic Geography for the Degree of M.A. with HONOURS IN ECONOMIC SCIENCE are given on page 194.

IV. Department of History and Law.

HISTORY.

PROFESSOR LODGE.

The Course qualifies for Graduation in Arts. The subject, until further notice, is GENERAL BRITISH HISTORY, divided into the following Periods and Subjects :—

Part I.—1. The Original Peoples of Britain and the Roman Occupation.—2 The Growth of the English Nation.—3. The Growth of the Scottish Nation.—4. The Institutions of England before the Norman Conquest.—5. Norman and Angevin Rule.—6. Simon de Montfort and Edward I.—7. The Hundred Years' War.—8. Constitutional Development during the War.—9. The Social Importance of the Fourteenth Century.—10. The Scottish Monarchy, Nobles, and Parliament.—11. Personal Monarchy in England.—12. Social Changes in England under the Tudors.—13. The Reformation in England.—14. The Reformation in Scotland.

Part II.—15. Crown and Parliament (1603-1640).—16. The Long Parliament and the Protectorate (1640-1660).—17. Restoration and Revolution (1660-1689).—18. Colonies and Commerce (1600-1689).—19. Whigs and Tories : William III. and Marlborough (1689-1714).—20. Scotland and Ireland : the Union (1689-1714).—21. The Whig Supremacy (1714-1760).—22. India and America (1714-1763).—23. George III. and the Parliament

(1760-1783).—24. The American War (1763-1783).—25. Pitt and the French Revolution (1783-1815).—26. Ireland: the Union (1715-1800).—27. Reaction and Reform (1815-1832).

WORK OF THE CLASS.—1. The Class will meet on Tuesdays, Wednesdays, and Fridays at 11.

2. During the three terms the Class will meet in small sections for tutorial instruction. These meetings will be held on Mondays and Thursdays at 11.

3. Three Class Examinations will be held, and three or more Essays set, during the three terms. Honours will be awarded to candidates distinguished both in the examinations and in the essays.

Students in this Class may attend Mr Heatley's "Mackay Lectures" without fee.

Books recommended.—For elementary purposes, T. F. Tout's *Advanced History of Great Britain*, or Ransome's *Advanced History of England*, J. R. Green's *Short History of the English People*, C. R. L. Fletcher, *Introductory History of England*, Woodward, *The Expansion of the British Empire*, with Hume Brown's *History of Scotland*, and Morris' *History of Ireland* (Cambridge Series). For the seventeenth century, the two volumes (1603-1660 and 1660-1714) of Bell's *History Source Books* are prescribed, and the following books are recommended: G. M. Trevelyan's *England under the Stuarts*, Firth's *Oliver Cromwell*, Lodge's *Political History of England, 1660-1702*, Mathieson's *Politics and Religion in Scotland*.

The Subjects of Examination in History for the Ordinary Degree of M.A. are as follows:—

General British History, viz.:—(1) History of the British Isles from B.C. 55 to A.D. 1837, in outline; (2) The same from 1603 to 1689, in detail.

The Examiners will attach greater importance to a grasp of principles than to mere knowledge of details.

Books recommended.—(a) For the *General History*: T. F. Tout's *Advanced History of Great Britain*, or Ransome's *Advanced History of England*, Green's *Short History of the English People*, C. R. L. Fletcher's *Introductory History of England*, Hume Brown's *History of Scotland*, Morris' *History of Ireland*, Woodward's *Expansion of the British Empire*. (b) For the *Special Period*: G. M. Trevelyan's *England under the Stuarts*, Firth's *Oliver Cromwell*, Lodge's *Political History of England, 1660-1702*, Mathie-

son's *Politics and Religion in Scotland*. Candidates are required to study the two volumes of Bell's *English History Source Books*, which deal with the periods 1603-1660 and 1660-1714.

Honours Course.

PROFESSOR LODGE.

The subject for 1914-15 is

The History of Europe from 1715-1815.

The following books are prescribed:—*Mémoires de Frédéric II.* (ed. Boutaric); *Diaries and Correspondence of the First Earl of Malmesbury*, vol. ii., pp. 66-443, and vol. iii., pp. 369-599; *Autobiography of Metternich* (trans.), to 1815.

Books recommended for the use of the Class.—Lavissee et Rambaud, *Histoire Générale*; Martin, *Histoire de France*, tomes xv. and xvi.; Carlyle, *Frederick the Great*; Rambaud, *History of Russia*; Sorel, *La Question d'Orient au Dix-huitième Siècle*; Mahan, *The Influence of Sea Power upon History* and *The Influence of Sea Power upon the French Revolution and Empire*; De Tocqueville, *France before the Revolution*; *The Cambridge Modern History*, vols. viii. and ix.; Mignet, *History of the French Revolution*; Carlyle, *The French Revolution* (ed. by C. R. L. Fletcher); Sorel, *L'Europe et la Revolution Française*; Seeley, *Life and Times of Stein*; Fyffe, *History of Modern Europe*, vol. i.; J. Holland Rose, *Life of Napoleon*; Sorel, *Le Traité de Paris*.

This Course of fifty lectures qualifies for Graduation in Arts with Honours in History. The Lectures will be given during the Autumn and Spring Terms on Tuesdays, Wednesdays, and Fridays at 10. Tutorial instruction in the prescribed books will be given, at times to be arranged with the Class.

Two Class Examinations will be held, and three or more essays set. Students in this Class may attend Mr Heatley's "Mackay Lectures," without fee, and may use the History Reading Room.

The Honours Subject for 1915-16 will be—*The History of Europe from 1715-1815*

The Subjects of Examination in European History for the Degree of M.A. with HONOURS IN HISTORY are given on page 232.

CONSTITUTIONAL LAW AND CONSTITUTIONAL HISTORY.

PROFESSOR MILLAR.

(See under Faculty of Law.)

The Subjects of Examination in Constitutional Law and Constitutional History for the Ordinary Degree of M.A. are as follows :—

Constitutional Law and Constitutional History, as treated in the lectures, and in the works of the authorities referred to in the synopsis thereof.

CONSTITUTIONAL HISTORY.

Honours Course—Fifty Lectures.

PROFESSOR MILLAR.

The subject for 1914-15 is

Constitutional History from 1688.

Books of reference.—Robertson's *Select Statutes, Cases, and Documents*, Anson on the *Law and Custom of the Constitution*, Dicey on the *Law of the Constitution*, Dicey's *Law and Public Opinion in England*, A. Lawrence Lowell's *Government of England*, May's *Constitutional History*, and other works which will be indicated during the Course.

Students will also be referred to Statutes and other contemporary documents.

This Course, qualifying for graduation in Arts with Honours in History, will be given during the Autumn and Spring Terms (Wednesdays, Thursdays, Fridays, at 4 P.M.). Students attending them may use the History Library, and may attend the "Mackay Lectures" without additional fee.

The Subjects of Examination in Constitutional History for the Degree of M.A. with HONOURS IN HISTORY are given on page 231.

ANCIENT (SCOTTISH) HISTORY AND PALÆOGRAPHY.

PROFESSOR HUME BROWN.

Autumn and Spring Terms.

I. Ancient (Scottish) History (Mondays, Wednesdays, and Fridays, from 4 to 5 P.M.)—The main subject of this Course is Scottish History from its origins to the close of the 15th century, but the histories of other countries will be treated, so far as they directly bear on the development of Scotland. The Course will be divided into the following periods:—(1) The Roman Occupation. (2) The Moulding of Scotland through the gradual union of Picts, Scots, Britons, and Angles. (3) The Consolidation of Scotland. Under this head will be discussed the growth of Civil, Political, and Ecclesiastical Institutions, and the appearance and influence of Historic Families. (4) The War of Independence. (5) The Struggle between the Crown and the Barons.

This Course qualifies for Graduation in Arts with Honours in History. It also qualifies for the Ordinary Degree, as a double course to be taken with British History, when supplemented by the Summer Course on later Scottish History delivered by the Lecturer.

Books prescribed.—Skene, *Celtic Scotland*, vol. i.; Rhys, *Celtic Britain* (3rd edition); Hill Burton, *History of Scotland* (volumes dealing with the period prescribed); the Professor's *History of Scotland*, vol. i.

Books recommended.—A. O. Anderson, *Scottish Annals from English Chroniclers*—A.D. 500-1286; E. W. Robertson, *Early Kings of Scotland*; Bishop Dowden, *The Celtic Church in Scotland*; Lord Hailes, *Annals of Scotland*; Fraser Tytler, *The History of Scotland from the Accession of Alexander III. to the Union*; Cosmo Innes, *Scotland in the Middle Ages*; *Sketches of Early Scotch History*; *Scotch Legal Antiquities*; Pinkerton, *History of Scotland from the Accession of the House of Stuart to that of Mary*; A. Lang, *History of Scotland*, vol. i.; Bain, *The Edwards in Scotland*; A. R. MacEwen, *A History of the Church in Scotland*.

II. Palæography (Tuesdays and Thursdays, from 4 to 5 P.M.).

This Course will deal only with Latin Palæography, and specially with the period from the 11th to the 15th century

(inclusive). The opening meetings of the Class will be devoted to the study of hand-writing from the 5th to the 11th century, but the chief work of the Class will consist in the reading of Scottish Documents from the 11th century. Illustrative specimens of the documents of other countries will also be read. Questions of Diplomatic will be discussed in connection with the reading of Documents.

N.B.—Some knowledge of Latin is required for this Class.

Textbook.—Maunde Thompson, *Handbook of Greek and Latin Palæography*.

Books recommended.—Chassant, *Paléographie des Chartes et des Manuscrits*; Prou, *Manuel de Paléographie, Latine et Française*; *National MSS. of Scotland*, part i.

SCOTTISH HISTORY.

PROFESSOR HUME BROWN and HENRY W. MEIKLE, M.A.,
D.Litt., *Lecturer*.

1. *Autumn and Spring Terms.*—Ancient Scottish History. For the Course of Lectures and Books recommended see under Ancient (Scottish) History.

2. *Summer Term.*—Modern Scottish History (Mondays, Wednesdays, and Fridays, from 4 to 5 P.M.). A Course of twenty-five lectures will deal with the history of Scotland from the Reformation to the close of the eighteenth century under the following heads:—1. *The Crown and the Kirk.* The New Era at home and abroad—The Church—The Religious Revolution—Mary Stewart—The Regencies—The Union of the Crowns—The Covenants—Scotland under the Commonwealth—The Restoration—The Revolution Settlement. 2. *The Age of Secular Interests.* Trade and the Darien Scheme—The Union—Jacobite Risings—Industrial Progress—Burgh and Parliamentary Reform—Dundas and the French Revolution.

Books recommended.—See under Ancient (Scottish) History for general histories of Scotland; W. L. Mathieson, *Politics and Religion in Scotland*, *Scotland and the Union*, and *The Awakening of Scotland*; the Lecturer's *Scotland and the French Revolution*; C. S. Terry, *The Scottish Parliament, 1603-1707*;

H. G. Graham, *Social Life in Scotland in the Eighteenth Century*. For the Special Period :—Rait's *Mary Queen of Scots*, 1542-87, the Professor's *John Knox*, M'Crie's *Life of John Knox*, the Professor's *George Buchanan*, and *Scotland in the Time of Queen Mary*, M'Crie's *Life of Andrew Melville*.

The Subjects of Examination in Scottish History for the Ordinary Degree of M.A. are as follows :—

(1) A general knowledge of Scottish History from the Roman Occupation to the Reform Bill of 1832. (2) A more detailed knowledge of the period 1542-1603.

Books recommended.—The Professor's *History of Scotland*; the histories of Scotland by Fraser Tytler, Hill Burton, and A. Lang; W. L. Mathieson's *Politics and Religion in Scotland, Scotland and the Union*, and *The Awakening of Scotland*; the Lecturer's *Scotland and the French Revolution*; C. S. Terry's *The Scottish Parliament, 1603-1707*; H. G. Graham's *Social Life in Scotland in the Eighteenth Century*. For the Special Period :—Rait's *Mary Queen of Scots*, 1542-87, the Professor's *John Knox*, M'Crie's *Life of John Knox*, the Professor's *George Buchanan*, *Scotland in the Time of Queen Mary*, M'Crie's *Life of Andrew Melville*.

The Subjects of Examination in Scottish History for the Degree of M.A. with HONOURS IN HISTORY are given on p. 232; and the Subjects in Palæography for the Degree of M.A. with HONOURS IN ECONOMIC SCIENCE (p. 194), on pp. 220-1.

ECCLESIASTICAL HISTORY.

PROFESSOR JAMES MACKINNON.

Ordinary Course.

Full Course qualifying for the M.A. Ordinary Degree (if taken after British History) on the History of the Christian Church during the First Six Centuries.

The subject will be treated partly in outline, partly in detail. Special attention will be devoted to the Origins and Diffusion of Christianity, and the Development of the Doctrine and Constitution of the Church, and also to the History of the early British Church.

Books recommended.—Rainy, *The Ancient Catholi Church*; Fisher, *A History of the Christian Church*, Periods I.-IV.; Jackson, *History of the Christian Church*; Gwatkin, *Early Church History*.

The Class meets five times a week, during the Autumn and Spring Terms, at 11 o'clock.

The Subjects of Examination in Ecclesiastical History for the Ordinary Degree of M.A. are as follows:—

The History of the Christian Church during the First Six Centuries. The papers for the M.A. Degree will not be the same as for the B.D. Degree, and the standard of attainment will not be so high. For books recommended in addition to the Class Lectures, see the Ordinary Course of the Professor of Ecclesiastical History, as above.

Honours Course.

Full Course qualifying for the M.A. Degree, with Honours in History, on the Reformation in the 16th century.

The Class will meet at least fifty times during the Autumn and Spring Terms, on Mondays, Wednesdays, and Fridays. The hour of meeting is provisionally fixed at 12 o'clock.

A special knowledge of the following contemporary works will be required for the degree examination:—

The following three Reform pamphlets of Luther—"An den Christlichen Adel Deutscher Nation (1520)"; "De Captivitate Babylonica Ecclesiae (1520)"; "Von der Freiheit eines Christen Menschen (1520)." These will be found in any edition of Luther's works (preferably the *Kritische Gesamtausgabe*, edited by Knaacke), and an English translation by Wace and Buchheim. *Histoire Ecclesiastique*, attributed to Beza, up to 1560. Gee and Hardy, *Documents Illustrative of English Church History*, Nos. 45 to 80. Knox's *Historie of the Reformation in Scotland*, edited by D. Laing (period 1559-67).

The lectures will deal with the origin and progress of the Reformation in Germany, Switzerland, France, England, and Scotland, and will treat to some extent of the political and social as well as the religious aspect of this movement.

Advanced Course.

Seminar or Advanced Class for the study of Documents relative to the History of the Reformation. See under Faculty of Divinity. This Course is open to Arts students.

The Subjects of Examination in the History of the Reformation for the Degree of M.A. with HONOURS IN HISTORY are given on page 232.

ANCIENT (GREEK AND ROMAN) HISTORY.

A. F. GILES, M.A., *Lecturer.*

Ordinary Course.

Ancient History may be taken as a subject of examination for the Ordinary Degree of M.A., either as an independent subject or as a member of certain groups of "cognate subjects" (see p. 46). Lectures will be given in all three Terms, on Tuesdays, Wednesdays, and Fridays, at 9 o'clock (12 o'clock in 1915-16), as follows:—

- (i) Autumn Term: The history of the Greek States from the sixth century B.C. to the Roman Conquest.
- (ii) Spring Term: The history of the Roman Republic to the Battle of Actium.
- (iii) Summer Term: The history of the Roman Empire to the Foundation of Constantinople.

For list of books recommended, see below.

An advanced knowledge of Latin and Greek is not necessary; but it is desirable that students taking Ancient History should have attended the ordinary classes in Latin and Greek.

N.B.—Students reading for Honours in Classics or in History may attend any of the three terminal sections of the Ordinary Course separately, as introductory to the Honours Half-Courses, on payment of a fee of £1, 1s. for each term. Such attendance does not *qualify* for any degree examination.

The Subjects of Examination in Ancient (Greek and Roman) History for the Ordinary Degree of M.A. are as follows:—

The general course of Greek History from the sixth century B.C. to the Roman Conquest, with special reference to the history of Athens; and of Roman History to the third century A.D., with special reference to the republican and imperial constitutions and the government of the provinces. Candidates will be expected to show knowledge of the subject-matter of the Greek and Roman historians, as referred to in class lectures.

Books recommended.—For reading in connection with lectures—Warde Fowler's *City-State of the Greeks and Romans*; Greenidge's *Greek Constitutional History and Roman Public Life*; Bury's or Abbott's *History of Greece*; Mahaffy's *Alexander's Empire*; Pelham's *Outlines of Roman History*; Myres's *History of Rome*, or Heitland's *Short History of the Roman Republic*; Stuart Jones's *Roman Empire*; Bury's *Roman Empire*; Arnold's *Roman Provincial Administration*.

For reference and extended reading.—*Histories of Greece* by Grote and Holm; Mahaffy's *Greek Life and Thought*; Grundy's *Great Persian War and Thucydides and the History of his Age*; Zimmern's *Greek Commonwealth*; Gilbert's *Constitutional Antiquities of Athens and Sparta*; Heitland's *Roman Republic*; Mommsen's *History of Rome and Provinces of the Roman Empire*; Gibbon's *Decline and Fall* (Bury's Edition), vols. i. and ii.; vol. i. of the *Cambridge Medieval History*; Reid's *Municipalities of the Roman Empire*; Maine's *Ancient Law*; the *Cambridge Companions to Greek and Latin studies*; Stuart Jones's *Companion to Roman History*. Other works will be indicated in class.

(For **Honours Half-Courses**, see Department of Classics, p. 151.)

COLONIAL AND INDIAN HISTORY.

JAMES MUNRO, M.A., *Lecturer*.

Ordinary Course.

Tuesday, Thursday, Friday, 10 A.M.

The Course will be divided into three parts—(A) the Old Colonial System (to 1783); (B) the Self-Governing Dominions; (C) India, Crown Colonies, and Dependencies.

A. The New Trade Routes—Attacks on Spanish and Portuguese Monopolies in West and East—New England, New Holland, New France, and New Scotland (Nova Scotia)—The West Indies and the Slave Trade—Economic Difficulties of Colonisation—The Acts of Trade—Collision with the French, 1688-1713—Machinery of Colonial Government and Causes of Friction—Social

and Economic Conditions—The Decisive Struggle with France, 1744-63 — Colonial Defence and Taxation — Causes of the Loss of the First Colonial Empire—The Revolution—Canada from 1763 to 1783.

India under the Moguls—The European Companies—Clive and the Struggle with France—The Occupation of Bengal — Hastings and his Difficulties — Political Dangers of Company Rule—Pitt's India Act of 1784.

B. CANADA.—The U.E. Loyalists add a British Canada to French Canada—Their working side by side under the Constitutional Act (1791-1840) and together under the Union Act (1841-67)—The Grant of Responsible Government and the founding of the Dominion—Growth of Greater Canada—Relations with the United States.

AUSTRALIA. — Colonisation by Convicts — Exploration — "The Wakefield Theory"—Economic and Political Development—International Politics in the Pacific—Constitution of the Commonwealth.

NEW ZEALAND.—The Maoris before and since annexation — The New Zealand Company — Economic and Political Development—Experiments in State Socialism.

SOUTH AFRICA. — The Native Question — Relations of Dutch and English—Plans of Federation (Grey, Carnarvon, Rhodes)—The two Boer Wars—Constitution of the Union—Economic Development.

IMPERIALISM and the Imperial Conferences.

C Geographical Distribution of the Peoples of India—Their Religion and Social and Economic Conditions—The Great Pacification—The Mahrattas, the Sikhs, etc.—Afghanistan and Burma—The Mutiny—The Government of India—Economic Progress—Humanitarian and Educational Reforms—The Nationalist Movement.

The West Indies—West Africa—East Africa—Rhodesia and Central Africa—Egypt—Ceylon—The Further East —The Pacific—"The Native Question"—Importance of Sea Power.

The Subjects of Examination in Colonial and Indian History for the Ordinary Degree of M.A. are as follows :—

- (1) The First Empire to 1783 ; (2) The Self-Governing Dominions ;
(3) India, Crown Colonies and Dependencies.

Books recommended.—Egerton's *History of British Colonial Policy* ; Dickerson's *American Colonial Government* ; Channing's *History of the United States* ; G. L. Beer's books on the economic history of the colonies ; J. A. Doyle's *The English in America* ; Trevelyan's *American Revolution* ; Lucas's *Historical Geography of the Colonies* ; colonial volumes in the "Cambridge Historical" series ; Wyatt Tilby's *The English People Overseas* ; *The British Empire*, published by the League of the Empire ; Pembr Reeves' *The Long White Cloud* ; *Canada Source Book* (G. Bell & Sons) ; Sir W. Hunter's *History of British India* ; H. G. Keene's *History of India* ; "The Rulers of India" series ; relevant chapters in the *Cambridge Modern History* ; and the accounts of Imperial statesmen in the *Dictionary of National Biography*.

Honours Course.

Tuesday, Thursday, and Friday, 9 A.M.,
Spring and Summer Terms.

The subject for 1914-15 is

*India, Crown Colonies, and other Dependencies in the
Victorian Age.*

Causes of Annexation : Material, Governmental, and Social Development : The Rule of Chartered Companies : Racial Problems : National Movements : International Position : Boundaries and Questions of Defence : Great "Pro-consuls."

Books recommended.—Sir J. Strachey's *India* (1911) ; Sir W. Hunter's *Indian Empire* ; Sir T. Morison's *Imperial Rule in India, and Economic Transition in India* ; Dutt's *India in the Victorian Age* ; J. Chailley's *Administrative Problems of British India* ; Sir C. Ilbert's *Government of India* ; Sir W. Lee-Warner's *Native States* (1910) ; Sir J. B. Fuller's *Empire of India, and Studies of Indian Life and Sentiment* ; G. W. Forrest's *History of the Indian Mutiny* ; *The Indian National Congress* (Proceedings published by Natesan, Madras) ; V. Chirol's *Indian Unrest* ; Biographies of the Governors and other Administrators ; the leading Parliamentary Papers.

J. S. Keltie's *Partition of Africa* ; Sir H. Johnston's *Colonisation of Africa, and Uganda* ; E. D. Morel's *Nigeria* ; Lady Lugard's *A Tropical Dependency* ; Sir C. Eliot's *East*

African Protectorate; Sir F. Swettenham's *British Malaya*; Alleyne Ireland's *British Rule in the Tropics*, and *The Far Eastern Tropics*; A. Aspinall's *The West Indies*; T. W. Burton's *Fiji of To-Day*; the *Statistical Abstract of the Colonies*, and the *Colonial Office List*.

The Subjects of Examination in Colonial and Indian History for the Degree of M.A. with HONOURS IN HISTORY are given on page 232.

POLITICAL SCIENCE.

D. P. HEATLEY, *Lecturer*.

A full Honours Course on Political Science for graduation with Honours in History and in Economic Science will be given in two separate parts of twenty-five lectures each :—

(1) *Spring Term*, on Mondays, Wednesdays, and Fridays, at 12, beginning on 13th January 1915 :—

The History of Political Thought since the Reformation, with a retrospect. The Course will include a comparative study of political theories.

(2) *Summer Term*, on Mondays, Wednesdays, and Fridays, at 12, beginning on 22nd April 1915 :—

The Modern State: The Scope of Politics; Foundations, Structure, and Working of the State; the Federal State; Functions of Government; Legislative and Administrative Methods; Central and Local Authority; Representative Government; Problems of Modern Democracy.

Books.—Woodrow Wilson, *The State*, Willoughby, *The Nature of the State*, and Sidgwick, *Elements of Politics*; Aristotle, *Politics*; Hobbes, *Leviathan*, part ii. ("Of Commonwealth"); Locke, *Civil Government*; Mill, *Representative Government*; *The Federalist*, ed. by H. C. Lodge; Gierke, *Political Theories of the Middle Age*, transl. and ed. by F. W. Maitland; Figgis, *Studies of Political Thought from Gerson to Grotius*; Dicey, *Law of the Constitution* and *Law and Public Opinion in England*; Janet, *Histoire de la Science Politique*; Bryce, *Studies in History and Jurisprudence*; Graham, *English Political Philosophy from Hobbes to Maine*.

Elementary Politics.

This Course will be given during the *Spring Term* on Tuesdays and Thursdays at 12, beginning on 12th January.

- I. Fundamental Terms and Considerations in the Study of Politics.
- II. The Organisation and Conduct of Government in Britain to-day (with references to other States).
- III. (a) Federalism.
(b) Government within the British Empire.
- IV. Relations between States, and the conduct of international politics.

HISTORY.

Britain in the Eighteenth and Nineteenth Centuries.

(*Mackay Lectures in History.*)

D. P. HEATLEY, *Lecturer.*

This Course will be given during the *Summer Term* on Tuesdays and Thursdays at 10, beginning on 22nd April.

Lecky's and Spencer Walpole's *Histories* may be used in connection with the lectures.

British History (Honours Course).

D. P. HEATLEY, *Lecturer.*

A Course of fifty lectures qualifying for graduation with Honours in History will be given in two parts of twenty-five lectures each:—

(1) *Autumn Term*, on Mondays, Wednesdays, and Fridays, at 12, beginning on 14th October: *The History of England to 1307.*

(2) *Summer Term*, on Mondays, Wednesdays, and Fridays, at 10, beginning on 21st April: *The History of England, 1485-1660.*

The lectures will be on both general and constitutional history. The work will include a study of the three volumes of documents edited by Stubbs, Prothero, and Gardiner.

The Subjects of Examination in Political Science for the Degree of M.A. with HONOURS IN HISTORY AND IN ECONOMIC SCIENCE are given on page 231.

FINE ART.

PROFESSOR BALDWIN BROWN.

Graduation Course.

A Course of about one hundred lectures on *The History and Theory of the Fine Arts*, covers the three terms of the academical year. This Course is included among the subjects cognate with History, with which it may be grouped as a Double Course.

In the arrangement of the lectures a historical order is observed, and the artistic annals of Europe and the nearer East are followed from the earliest manifestations of Art in primitive civilisation, through Egypt and Babylonia, and the Classical, Early Christian, and Mediæval epochs, to the more modern developments of Painting and the other arts in our own days. At the same time the theoretical and critical points of view are maintained throughout, and the principles that underlie the concrete facts of Art are constantly kept in mind.

On the historical side—

The connection of the Arts with the national, religious, and social life of successive epochs is fully explained and illustrated.

On the artistic side—

Particular stress is laid on the explanation of different materials and technical processes, as upon these largely depend the particular forms in which beauty is realised in the various works of human hands.

Arrangements for the work of the Class:—In each of the three Terms there are Lectures at 3 P.M. on Monday, Tuesday, Wednesday, and Thursday. Three or more Class Examinations are held, and a series of eight Essays are set for the Cousin Prize (£15). At least four satisfactory Essays are included in the work required from those taking the Course for Graduation.

The Class Library, Reading-Room, and collections of examples are open to members of the Class.

Museums, etc., are visited from time to time on Fridays and Saturdays.

The Professor's manual, *The Fine Arts*, is used, so far as it goes, as a textbook. Other books to be read by those taking the Course for Graduation are indicated below.

The Subjects of Examination in Fine Art for the Ordinary Degree of M.A. are as follows:—

The subjects for examination will be the Class Lectures, the Professor's Manual, *The Fine Arts* (2nd Ed.), Conway's *Decorative Art in the Ancient World*, Tarbell's *History of Greek Art*, Poynter's *Classical and Italian Painting*. Candidates will be expected to show some knowledge of the original authorities for the different periods of Art History.

CLASSICAL ARCHÆOLOGY—Honours Course.

See page 150.

The Subjects of Examination in History of Art for the Degree of M.A. with HONOURS IN HISTORY are given below.

EXAMINATIONS FOR GRADUATION IN ARTS WITH HONOURS IN HISTORY.

SUBJECTS FOR 1915.

Candidates for Honours in History must attend at least Four Courses in History, two at least of which must be Honours Courses.

Of the following subjects candidates must take Nos. i., ii., and iii., and also two branches under No. iv., one of which must be (a) or (b).

- i. General British History from B.C. 55 to A.D. 1837, two papers.
- ii. The Constitutional History and Constitutional Law of England, three papers—(a) to 1399, (b) from 1399 to 1688, (c) from 1688.
- iii. Political Science: (1) Nature, structure, and working of the State; (2) History of Political Theories, especially since the Reformation. A knowledge of the following works is required:—Aristotle, *Politics* (a general knowledge); Gierke, *Political Theories of the Middle Age*, translated

and edited by Maitland; Hobbes, *Leviathan*, part ii. ("Of Commonwealth"); Locke, *Civil Government*; Mill, *Representative Government*. One paper will be set in this subject.

iv. Two papers on each of two of the following subjects, one of which must be (a) or (b):—

(a) European History from 1715 to 1815, with special study of *Mémoires de Frédéric II.* (ed. Boutaric); *Diaries and Correspondence of the First Earl of Malmesbury*, vol. ii. pp. 66-443; vol. iii. pp. 369-599; *Autobiography of Metternich*, to 1815.

(b) The History of the Reformation. (For the prescribed books, see the Honours Course of the Professor of Ecclesiastical History, p. 223.)

(c) Scottish History from 80 A.D. till 1832. Special period from 80 A.D. till 1093. Books prescribed for special period:—Adamnan, *Life of St Columba* (ed. Fowler); Portions of Bede's *Ecclesiastical History* (ed. Plummer), dealing with History of Scotland; Turgot, *Life of St Margaret* in Pinkerton's *Vitae Antiquae Sanctorum*; part ii. of A. O. Anderson's *Scottish Annals from English Chroniclers*.

(d) (1) The general course of Greek History to the death of Alexander. (2) Special period of Greek History, 490-429 B.C., with Herodotus, bks. vii.-ix.; Thucydides, bk. i.; Hicks and Hill, *Manual of Greek Historical Inscriptions*, part ii.

(e) (1) The general course of Roman History to the death of Nero. (2) Special period of Roman History, 29 B.C.-68 A.D., with Suetonius, *Augustus*; Tacitus, *Annals* (passages relative to the Constitution of the Principate); the *Monumentum Ancyranum*; Rushforth, *Latin Historical Inscriptions*.

(f) (1) The general Economic History of the British Isles from 55 B.C.—1900 A.D., with that of the United States in the 19th Century. (2) The Economic History of the British Isles and Empire, 1760-1910. (For authorities, see the Regulations for Honours in Economic Science, p. 194.)

(g) History of Art: The general subject, embracing—The Class Lectures; The Professor's Manual, *The Fine Arts*; Conway's *Dawn of Art in the Ancient World*; Maspero's *Dawn of Civilisation and Struggle of the Nations*; Woltmann's *History of Painting*, vol. i.; Vasari's *Lives of Giotto, Angelico, Donatello, Brunelleschi, Michelangelo* (in Blashfield and Hopkins' edition of the *Lives*).

(h) Colonial and Indian History:—(1) Outlines of the subject as studied in the Ordinary Class; (2) Special subject for 1914-15, "India, Crown Colonies, and other Dependencies in the Victorian Age." (For syllabus, see p. 227.)

SUBJECTS FOR 1916.

The examination will be as above, except as follows:—The Special Period in Scottish History will be 1057-1286, and the books prescribed—Turgot, *Life of St Margaret*, in Pinkerton's *Vitae Antiquae Sanctorum*; A. O. Anderson, *Scottish Annals from English Chroniclers*, pp. 176-238;

John of Fordun's *Chronicle of the Scottish Nation* (Historians of Scotland, ed. W. F. Skene), *Annals*, pp. 248-305. The Special Subject in Colonial History will be "The Self-governing Colonies in the Victorian Age." The Special Subjects in Greek and in Roman History are the same as those stated in the Department of Classics, on p. 154.

SCHOLARSHIPS in the Department of History, open 1914-15—**Kirkpatrick**, p. 252; **Scott (George)**, p. 256.

MILITARY HISTORY.

CAPT. H. M. JOHNSTONE, R.E. (Ret.), *Lecturer*.

The Course, qualifying for Graduation in Arts, extends over the Autumn and Spring Terms of one academic year. For Army Candidates, taking this subject for the Arts Degree, the Course extends over two or more academic years, about forty lectures being given for them each session.

Some of the following Campaigns will be studied in detail, some only in their salient features:—

Campaigns of Napoleon I.; War of Secession in America; Campaign of 1866 in Bohemia; Franco-German War, 1870-71; South African War, 1899-1900; Russo-Japanese Campaign in Manchuria.

The Evolution of Strategy, Tactics, and Military Organisation from 1740 to the present day will be studied, and the influence of Sea Power on Land Operations.

Books will be prescribed and recommended from time to time during the Course.

The dates of lectures will be displayed on a poster at the beginning of each session.

The Subjects of Examination in Military History for the Ordinary Degree of M.A. are as follows:—

The subjects of examination will be the Class Lectures, Captain Johnstone's *A History of Tactics*, *The Campaigns of Marengo and Waterloo*, and selected portions of the following books: Prussian Official Account of War of 1866 in Bohemia, French and Prussian Official Accounts of 1870-71, British Official Account of the S. African War, British and Russian Official Accounts of Russo-Japanese War, Colonel Lloyd's *A Review of the History of Infantry*, Ropes's *Civil War in America*, Capt. Johnstone's *The Foundations of Strategy*.

PUBLIC LAW.

PROFESSOR SIR LUDOVIC J. GRANT, BART.

This Course is divided into two Sections—(1) General Jurisprudence (Oct.-Dec.); (2) Public International Law (Jan.-Mar.), and the full Course qualifies for Graduation in Arts. *Vide* under Faculty of Law.

The Subjects of Examination in Public Law for the Ordinary Degree of M.A. are given under Faculty of Law.

ROMAN LAW.

PROFESSOR MACKINTOSH.

The full Course in Roman Law extends over three Terms. *Vide* Civil Law, under Faculty of Law.

It is advisable to take the complete Course, if time permits; but attendance during two Terms qualifies for Graduation in Arts.

The Subjects of Examination in Roman Law for the Ordinary Degree of M.A. are as follows:—

(1) The history of the law from the foundation of Rome to the time of Justinian, and (2) a general knowledge of the principles and doctrines of the law. Gaius' *Institutes* and Muirhead's *Historical Introduction* are recommended for the historical part, and the Latin text of Justinian's *Institutes*, bks. i.-iv., tit. ix., must be professed for the doctrinal part.

MERCANTILE LAW.

HENRY AITKEN, K.C.

The Course in Mercantile Law extends over the Autumn and Spring Terms and qualifies for Graduation in Arts. *Vide* under Faculty of Law.

The Subjects of Examination in Mercantile Law for the Ordinary Degree of M.A. are given under Faculty of Law.

The Subjects of Examination in Mercantile Law for the Degree of M.A. with HONOURS IN ECONOMIC SCIENCE are given on page 194.

BANKING.

ALLAN M'NEIL, S.S.C., *Lecturer.*

The Class meets on Wednesdays and Fridays at 5 o'clock.

(*Note.*—In Session 1915-16 the Class will meet on *Tuesdays* and *Fridays*.)

1. *History of Banking.*—Early Banking Systems—Banking in Mediæval Europe—Banking in England in the time of Cromwell—Foundation of the Bank of England—The Bank of Scotland—Private Banks—Joint Stock Banks—Monetary Crises—Historic Panics—The Savings Bank: its rise and development.

2. *Principles of Banking.*—With reference to Banking Systems of the British Dominions, the United States, France, and Germany.

3. *The Practice of Banking.*—Functions of a Bank—Branch Bank—Powers of a Bank and its Officials—Currency—Banks of Issue and Note Issue—Bank Books—Bank Accounts—Clearing House—Banker and Customer, their mutual relation and obligation—Special Customers—Banker as Custodian—Banker's Lien—Bills of Exchange, Cheques and Promissory Notes—Banker as Collector of Bills and Cheques—Negotiable Securities—Securities for Advances—Letters of Credit and Circular Notes.

The following books are recommended. — *The History, Principles, and Practice of Banking*, by J. W. Gilbart; *The One Pound Note in the History of Banking in Great Britain*, by William Graham (new edition); Conant's *History of Modern Banks of Issue*; Kerr's *History of Banking in Scotland*; Wallace and M'Neil's *Banking Law*.

FEES FOR DEGREE OF M.A.

Candidates for the Ordinary Degree pay for each of the subjects of Astronomy, Chemistry, Zoology, Botany, or Geology, £1, 1s., and for each of the other subjects 15s.

Those who fail in the examinations pay 10s. 6d. for re-examination in each subject.

Candidates for the Degree with Honours pay the same total fees as for the Ordinary Degree.

DEGREE EXAMINATIONS, ETC.

Candidates are required to enter for each periodical Examination at which they desire to appear, and to state the subject or subjects in which they desire to be examined.¹

When names are not entered and fees paid, or a pass to the examination obtained where the fee has been previously paid, on or before the stated dates, an additional or late-entry fee of 10s. must be paid before the candidate can be admitted to examination. This fee will not be received after twelve o'clock of the last day but one preceding the examination for which the candidate desires to appear, without the express permission of the Dean of his Faculty and the subsequent sanction of the Senatus. A candidate must enter his name and pay the fee, or, when the fee has been previously paid, obtain a pass, for each periodical examination at which he desires to appear.

Fees are required to be paid at the Matriculation Office, as follows :—

1. For the examinations in Autumn, 1914, on 21st, 22nd, and 23rd September. (Office hours 10-1.)
2. For the Geology examination in December, on 3rd December.
3. For the examinations in Spring, 1915, on 2nd and 3rd March.
4. For the Honours Examinations in June 1915, on 28th May.

¹ In entering for the Final M.A. Honours Examination in Mathematics and Natural Philosophy, candidates must state in which of the selected groups they intend to present themselves for examination.

5. For the examinations in June and July 1915, *between 1st and 5th June inclusive.*

If, after payment of the fee, a candidate withdraws or fails to be present at the examination, the fee will not be repaid, but the candidate will be allowed to enter on one subsequent occasion for examination in the same subject, without payment of any additional fee. A new form must in this case be filled up by the stated date.

Class Certificates must be shown before the day of examination. When the candidate has exhibited the Certificates, the clerk will stamp on the receipt for the fee the words, "certificates examined," which entitles the candidate to admission to the Examination Room.

Candidates re-entering for examination are not required to show certificates.

Candidates for examination or for graduation must be Matriculated Students of the Academic year.

* * Every candidate for GRADUATION must produce certificates of having passed the necessary examinations, and pay the fee of £1 for Registration as a Member of the General Council. This should be done as soon as possible after examination results have been intimated; at latest, it must be by 4 o'clock on the last day but one preceding the Graduation.

The fees for Matriculation, Examinations for Degrees, and Registration of Graduates as Members of the General Council, are payable at the Matriculation Office, University. Candidates who cannot pay the fees personally, should transmit them to JAS. DOWIE, University, Edinburgh, by *Money Orders* or *Postal Orders*, or by *Bank Drafts*, crossed "*Union Bank of Scotland (Hunter Square Branch), Edinburgh.*"

Degrees are conferred by the Chancellor or the Vice-Chancellor of the University. They are not conferred *in absentia*, except on very special cause shown. Candidates must appear in Academic costume, with the appropriate hood.¹

¹ Black silk lined with white.

TIME-TABLES FOR M.A. EXAMINATIONS, 1914-1915.

Date.		M.A. Pass Examinations.	M.A. Honours Examinations. ¹
1914.			
Sept. 28	Mon.	French, 9-11, 11.30-1.30, 3-4 Latin, 4.30-6.30	
" 29	Tu.	Logic, 9-11 German, 11.30-1.30, 2.30-4.30, 5.30-6.30 Latin, 4.30-6.30	
" 30	Wed.	Logic, 9-11 Mathematics, 2-4, 4.30-6.30	
Oct. 1	Th.	History, 9-11, 11.30-1.30 Mercantile Law, ² 9-11, 11.30-1.30 Political Economy, ² 3-5	
" 2	Fri.	Roman Law, ² 9-11, 11.30-1.30 Political Economy, ² 3-5 Chemistry, 10-12 Celtic, Sanskrit, Arabic, Hebrew, Scottish History, Military History, Ancient History, Ecclesiastical History, 9-11, 11.30-1.30	
" 3	Sat.	Public Law, ² 9-11, 11.30-1.30 Constitutional Law and Constitutional History, ² 2-4	
" 5	Mon.	English, 9-11, 11.30-1.30 Constitutional Law and Constitutional History, ² 2-4 Greek, 4.30-6.30	

¹ The order of the papers set at the particular hours fixed for the general Honours subjects, within any department or group, may be varied at the discretion of the Examiners.

∴ It is impossible to avoid clashing between the hours of examinations in the Pass, Honours, and Scholarship subjects, and candidates should carefully consider early in their Curriculum the arrangements for these examinations, in order, so far as possible, to avoid clashing.

² In the examinations for the degree of M.A. in these subjects, candidates who intend to proceed later to the degree of LL.B. must pass on the LL.B. standard. In entering for examination they must expressly state that they appear on this standard.

Date.		M.A. Pass Examinations.	M.A. Honours Examinations. ¹
1914.			
Oct. 6	Tu.	Greek, 9-11 Psychology, 11.30-1.30, 2-4 Natural Philosophy, 4.30-6.30	
" 7	Wed.	Natural Philosophy, 9-11 Education, 11.30-1.30, 2-4 Moral Philosophy, 4.30-6.30	
" 8	Th.	Moral Philosophy, 9-11 Geography, 11.30-1.30, 2-4	
" 9	Fri.	Economic History, 9-11, 11.30-1.30	
" 13	Tu.	ARTS CLASSES OPEN	
" 16	Fri.	GRADUATION CEREMONIAL AT 10 A.M.	
Dec. 7	Mon.	Geology, 3-5	
" 8	Tu.	Chemistry (Second Course), 9-12	
1915.			
Mar. 12	Fri.		French, 10-1
" 13	Sat.		French, 10-1
" 15	Mon.	Constitutional Law and Constitutional History, ² 2-4 Mercantile Law, ² 5-7	French, 10-1
" 16	Tu.	Public Law, ² 9-11, 11.30-1.30 Constitutional Law and Constitutional History, ² 2-4 Military History, 5-7 Mercantile Law, ² 5-7 Hebrew, 10-12, 2-4 Sanskrit, 10-12, 2-4	French, 10-1, 3-5
" 17	Wed.	Political Economy, ² 5-7	Classics : Special Subjects, Wed. 2-5, and Th. 9-12 ; other papers, Th. 2-5, and 9-12 and 2-5 each day till 23rd. German, 10-1

¹ See footnote 1, page 238.² See footnote 2, page 238.

Date.		M.A. Pass Examinations.	M.A. Honours Examinations. ¹
1915.			
Mar. 18	Thur.	Roman Law, ² 9-11, 11.30-1.30 Political Economy, ² 5-7 Military History, 5-7	German, 10-1
" 19	Fri.	Botany, 10-12 Zoology, 2-4	German, 10-1, 3-5
" 22	Mon.	Ecclesiastical Hist., 10-12, 2-4	
" 30	Tu.	GRADUATION CEREMONIAL at	10 A.M.
June 1	Tu.		Metaphysics, 9-12, 2-4
" 2	Wed.		Moral Philosophy, 9-12, 2-5
" 3	Th.		Psychology, 9-12, 2-5 Logic, 9-11 Ancient Philosophy, 2-4
" 4	Fri.		Mental Philosophy (Essay Paper), 9-12
" 7	Mon.		History and Economic Science (Pol. Sc.), 9-12 Economic Science, 2-5 Final Nat. Phil. (Advanced Dynamics), 9-12 Intermediate Mathematics (1st paper), 2-5
" 8	Tu.		History (Const.), 2-5 Economic Science, 9-12, 2-5 English (Lit.), 9-12, 2-5 History (Const.), 9-12, 2-5 Final Mathematics (1st paper), 9-12 Intermediate Nat. Phil. (Thermodynamics), 2-5
" 9	Wed.		Economic History, 9-12, 2-5 English (Lit.), 9-12, 2-5 Final Natural Philosophy (Electrostatics), 9-12 Intermediate Mathematics (2nd paper), 2-5 History (European), 9-12, 2-5

¹ See footnote 1, page 238.² See footnote 2, page 238.

Date.		M.A. Pass Examinations.	M.A. Honours Examinations. ¹
1915. June 10	Th.	Fine Art, 9-11, 11.30-1.30 French, 2-4	Economic History, 9-12 Economic Science (Optional Subjects), 2-5 English (Lit. and Lang.), 9-12, 2-5 History (British), 9-12, 2-5 Final Mathematics (2nd paper), 9-12 Intermediate Nat. Phil. (Anal. Dynamics), 2-5
" 11	Fri.	French, 9-11, 11.30-12.30 Greek, 1-3, 3.30-5.30 German, 5-7	English (Lang.), 9-12, 2-5 Eccles. Hist., 9-12, 2-5 Final Natural Philosophy (Electrokinetics), 9-12 Intermediate Mathematics (3rd paper), 2-5
" 12	Sat.	German, 9-11, 11.30-12.30 Latin, 2-4	History of Art, 9-12, 2-5 Scottish History, 9-12, 2-5 Final Mathematics (3rd paper), 9-12 Intermediate Nat. Phil. (Exp. Physics), 2-5
" 14	Mon.	Latin, 9-11 Logic, 1-3, 3.30-5.30	Final Natural Philosophy (Quaternions), 9-12 Final Mathematics (4th paper), 2-5
" 15	Tu.	Moral Philosophy, 9-11, 11.30-1.30 Scottish History, 1-3, 4-6 Colonial and Indian History, 1-3, 4-6	Final Mathematics (5th paper), 9-12 Final Natural Philosophy (Exp. Physics), 2-5
" 16	Wed.	Psychology, 8.30-10.30 Celtic, 9-11, 11.30-1.30 Geography, 4-6	Final Natural Philosophy (Prac. Physics), 9-12
" 17	Th.	Psychology, 8.30-10.30 Arabic, 9-11, 11.30-1.30 History, 11-1, 2-4 Geography, 5-7	Final Natural Philosophy (Phys. Optics), 2-5

¹ See footnote 1, page 238.

Date.		M.A. Pass Examinations.	M.A. Honours Examinations. ¹
1915.			
June 18	Fri.	English, 9-11 Natural Philosophy, 12-2 2nd Nat. Phil. (Prac. Physics), 12-2 Education, 2.30-4.30, 5-7	
„ 19	Sat.	English, 9-11 Mathematics, 12-2 Economic History, 2.30-4.30	
„ 21	Mon.	Natural Philosophy, 9-11 Mathematics, 12-2 Economic History, 2.30-4.30 Military History, 5-7	
„ 22	Tu.	Ancient History, 9-11, 12-2 Military History, 5-7	
„ 23	Wed.	Astronomy (at University), 9-12 ; (at Observatory), 2-5	
„ 25	Fri.	Chemistry, 9-11 ; Second Course, 9-12 Geology, 1-3	
„ 28	Mon.	Botany, 9-11 Zoology, 3-5	
July 2	Fri.	{ ARTS GRADUATION CEREMONIAL at 10 A.M. COMMEMORATION SERVICE at 12 noon.	

¹ See footnote 1, page 238.

REGULATIONS FOR THE UNIVERSITY DIPLOMA IN EDUCATION.

I. The following persons are eligible to become candidates for the University Diploma in Education :—

- (a) Graduates in Arts or Science of this or any Scottish, or any other approved, University.
- (b) Students in Arts or Science who have also entered as students under the Edinburgh Provincial Committee for the Training of Teachers, and are taking a Four Years' Concurrent Course of University and Training College studies.

II. Candidates for the Diploma will be required to attend :—

- (a) The ordinary University Course in Psychology.
- (b) The ordinary University Course in the Theory and History of Education.
- (c) The University Course in Modern Educational Systems and Problems. (Summer Term.)
- (d) An approved Practical Course of Training, undertaken in a Training College, under the Regulations of the Scotch Education Department for the Training of Teachers.

Candidates who include, or have included Course (a) (Psychology) in their Graduation Course will be exempted from taking that part of the Diploma Course.

Courses (b) and (c) must be taken by candidates in addition to their graduation subjects, and not earlier than their fourth year of University study. Candidates who have already offered Education as a graduation subject will be required to take an additional Arts Course in their fourth year.

III. Candidates for the Diploma will be further required (*a*) to pass an examination in the subjects of their Diploma Courses on a higher standard than that required for the Ordinary M.A. Degree, to be approved by the University Court; and (*b*) to attain to a standard of proficiency in the Practical Course of Training, to be determined by the Edinburgh Provincial Committee.

IV. Candidates shall pay to the University for their Diploma Course a fee of £10, 10s., but students who have already included Psychology in their Graduation Course shall pay £6, 6s. The fee for examination in all the subjects of University study for the Diploma shall be £2, 2s.

V. Candidates will not be entitled to receive the Diploma unless they have already graduated in Arts or Science, or unless they are so graduating at the same time as they are qualified for the Diploma.

NOTE.—For 1915, the subjects and hours of examination in Psychology and in the Theory and History of Education will be the same as for the Ordinary Degree of M.A. An additional paper will be set on Modern Educational Systems and Problems.

For particulars, as regards the approved practical course of study, candidates are requested to consult the prospectus of the Edinburgh Provincial Committee for the Training of Teachers.

FELLOWSHIPS, SCHOLARSHIPS, BURSARIES, PRIZES, ETC.

I. Fellowships, Scholarships, Endowments for Research, etc.

(ARRANGED ALPHABETICALLY.)

Note.—The values of the Fellowships, Scholarships, etc., are stated *approximately*: the accuracy of the figures is not guaranteed.

Women are at present admitted to all the Scholarships in the Faculty of Arts, except those which are expressly limited to men by the terms of the Deed of Foundation.

Candidates for the Fellowships and Scholarships must enter their names with the Clerk of Senatus as follows: ¹—

For those open in Spring, not later than 2nd March.				
“	“	Summer,	“	1st June.
“	“	Autumn,	“	15th September.

The Examinations will take place in the Examination Rooms, University, at the same time as the Examinations in the corresponding subjects for Graduation in Arts with Honours, unless otherwise stated.

ARNOTT (NEIL) SCHOLARSHIP FOR EXPERIMENTAL PHYSICS. (Open June 1915.)

This Scholarship, value about £43, was founded in 1874, and is awarded annually to the most distinguished Student in the Physical Laboratory of the University.

The recipient must, during the ensuing Summer and Winter Sessions, assist the Professor of Natural Philosophy in the Laboratory. Failing a Student deemed by the Professor worthy of the Scholarship, it may be given to the Candidate for a Degree in Arts who has undergone the Examination in Natural Philosophy with most distinction. *See* Deed of Foundation, at p. 340 of CALENDAR for 1875-76.

1914, G. P. SMITH, M.A., B.Sc.	} equal.
J. W. THOMSON, M.A., B.Sc.	

¹ The Senatus reserve power to relax this Regulation in cases where they are satisfied that *very special cause* has been shown.

BAXTER (SIR DAVID) MATHEMATICAL SCHOLARSHIP.

This Scholarship, founded by Sir David Baxter, Bart., of Kilmaron, is of the annual value of about £68, and is tenable for four years. By the terms of the Deed of Foundation (given in the *CALENDAR* for 1864-65, p. 171) it is awarded for proficiency in the department of Mathematics, particularly in that branch of it which includes mechanical and physical science. Competitors must be Graduates in Arts of the University, of not more than four years' standing at the time of the competition, who have taken Honours in the department of Mathematics and Natural Philosophy. Candidates must appear at the Final Honours Examination in Mathematics and Natural Philosophy. Their selection of papers for this examination must be made according to the regulations applicable to candidates for Honours (see p. 208). They may submit records of original research, and such records, if properly authenticated, will be taken into consideration by the Examiners. The Scholarship is not tenable along with any other scholarship, fellowship, or bursary of any Scottish University, or with any situation or appointment of any kind yielding an annual income of £100. The next competition may take place in June 1917.

1913, JOHN MACKIE, M.A., B.Sc.

BAXTER (SIR DAVID) PHILOSOPHICAL SCHOLARSHIP. (Open March 1915.)

This Scholarship, also founded by Sir David Baxter, Bart., of Kilmaron, is of the annual value of about £68, and is tenable for four years. By the terms of the Deed of Foundation (given in the *CALENDAR* for 1864-65, p. 171), it is awarded for proficiency in the Department of Mental Philosophy. Competitors must be Graduates in Arts of the University, of not more than four years' standing at the time of the competition, who have taken Honours in the department of Mental Philosophy. The subjects of examination are Logic, Metaphysics, and Moral Philosophy. The Scholarship is not tenable along with any other scholarship, fellowship, or bursary of any Scottish University, or with any situation or appointment of any kind yielding an annual income of £100. The next competition may take place in March 1915.

1911, JOHN BAILLIE, M.A.

BAXTER (JOHN EDWARD) SCHOLARSHIPS. (*Mathematical*, open June 1915.)

These Scholarships were founded in 1876, and are three in number, each of the annual value of about £108, and tenable for three years. One is in the Department of Classical Literature, another in Mental Philosophy, and the third in Mathematics and Natural Philosophy. They are open for competition to all Masters of Arts of the University, of not more than three years' standing at the time of the competition.

They cannot be held along with any other scholarship, fellowship, or bursary in any Scottish University. The Scholarship in Classics may be open in March 1917, that in Mathematics in June 1915, and that in Mental Philosophy in March 1916. Candidates for the Mathematical Scholarship must appear at the Final Honours Examination in Mathematics and Natural Philosophy. Their selection of papers for this examination must be made according to the regulations applicable to candidates for Honours (see p. 208). They may submit records of original research, and such records, if properly authenticated, will be taken into consideration by the Examiners. See Deed of Foundation at p. 361 of CALENDAR for 1877-78.

1913, ALAN J. DORWARD, M.A. (Philosophical).

1914, D. J. CAMERON, M.A. (Classical).

BLACK (C. B.) SCHOLARSHIPS IN GREEK.

(Open March 1915.)

These two Scholarships, value about £82 each (less Examiners' fees), are tenable for two years, and one Scholarship shall be awarded in each year. The examination will take place at the close of the Spring Term. The Scholarships are open to undergraduates, and to graduates of not more than two years' standing, who have attended the Honours Class in Greek for at least one Winter Session or its equivalent. The holders of the Scholarships shall attend, for at least one session, lectures on the Greek New Testament in the University of Edinburgh, or in some other recognised University, or in an institution recognised for the purposes of graduation in Divinity by the University Court, and shall, if so required by the University Court, conduct a non-qualifying class in Hellenistic Greek during the second year of the tenure of the Scholarship; or, if not so required, shall, before the payment of the last instalment of the Scholarship, produce a thesis showing original research on some subject previously approved by the Senatus on the report of the Professors of Greek and Biblical Criticism. For Foundation, see p. 611 of CALENDAR, 1907-8.

1913, WILLIAM DICKIE, M.A. } equ'd.
G. B. FOULKES

1914, C. F. CRICHTON, M.A.
Prox. acc., J. M. BEATTIE, M.A.

BRUCE OF GRANGEHILL AND FALKLAND'S CLASSICAL SCHOLARSHIP.

This Scholarship, founded in 1865 by Mrs Tyndall Bruce of Falkland, is of the annual value of £100, and is tenable for three years, during two of which the studies of the Scholar must be prosecuted in the University of Edinburgh, but in the third year they may be prosecuted in an English or Foreign University. By the terms of the Deed of Foundation (given at p. 205 of the CALENDAR for 1866-67), this and the two following Scholarships held by Students who have passed their Examinations for the Degree of Master of Arts with Honours, have hitherto been con-

ferred upon the most distinguished in that one of the Honours Departments which is appropriated for each year. The Scholarship cannot be conferred upon anyone whose age exceeds twenty-three years, and it cannot be held with any other scholarship or fellowship of a Scottish University, or with any situation yielding an income of £100 per annum. In the event of the Scholarship becoming vacant during the period of tenure, through resignation of the Scholar, or otherwise, then the sum falling in shall be bestowed by the Senatus for the remaining period of tenure on a Student attending the Divinity Classes who shall be reported by the Faculty of Theology to be a meritorious Student and deserving of the Scholarship. The next award may be made in March 1917.

1914, ROBERT ROBERTSON, M.A.

Prox. acc., FLORA L. DUNCAN, M.A.

Hon. mention, GEORGE BROWN.

BRUCE OF GRANGEHILL AND FALKLAND'S SCHOLARSHIP IN MENTAL PHILOSOPHY.

This Scholarship, founded in 1865 by Mrs Tyndall Bruce of Falkland, is of the annual value of £100, and is tenable for the same period, and under the same conditions as the preceding. The subjects of examination are Logic and Psychology, Metaphysics, Moral Philosophy, and History of Philosophy. The next award may be made in June 1916.

1913, ALFRED J. MACKENZIE, M.A.

BRUCE OF GRANGEHILL AND FALKLAND'S MATHE- MATICAL SCHOLARSHIP.

This Scholarship, founded in 1865 by Mrs Tyndall Bruce of Falkland, is of the annual value of about £100, and is tenable for the same period, and under the same conditions as the preceding. The subjects of examination are Mathematics and Natural Philosophy. The next award may be made in June 1917.

1914, G. P. SMITH, M.A., B.Sc.

CARNEGIE POST-GRADUATE SCHOLARSHIPS (£100) AND FELLOWSHIPS (£150), AND GRANTS IN AID OF RESEARCH.

Graduates of this University, preferably with Honours in at least one of the groups of History, Economic Science, English, and Modern Languages and Literature, are entitled to become Candidates. Application forms may be had from the Secretary to the Carnegie Trust, 22 Hanover Street, Edinburgh, to whom all communications must be addressed. Nominations for Scholarships, and applications for Fellowships and Grants in Aid must be lodged with the Secretary not later than 15th April annually.

DICKSON (WILLIAM) TRAVELLING FUND.

This Fund (the interest of which amounts to about £90 per annum) has been established for the purpose of assisting Graduates (men or women) of any Faculty, of not more than three years' standing, to travel, for a shorter or longer period, for purposes of study or research. Grants from the Fund may be made to holders of Scholarships, Bursaries, etc. Applicants are required to state—" (1) The purpose for which the Applicants desire to get a Grant for travelling; (2) the total amount of expenditure thought necessary; (3) the other means they have towards meeting this expenditure; and (4) the amount of the Grant required from the Fund." The award of a grant to be based on—" (1) The importance of the work proposed to be undertaken; (2) the sufficiency of the means proposed to be applied to the work; (3) the capability of the Applicant for the work they respectively propose to undertake." " Holders of Grant in all cases to satisfy the Senatus by periodical reports that they are carrying out satisfactorily the work or investigation undertaken; and to present a final report, or to deliver a course of public University Lectures on their work when completed." Applications, on Special forms to be obtained at the Matriculation Office, must be lodged with the *Secretary of Senatus* on or before 7th March annually. For Deed of Endowment, see p. 514 of CALENDAR, 1889-90.

DRUMMOND MATHEMATICAL SCHOLARSHIP.

(Open June 1915.)

This Scholarship was founded in 1865 by Miss Elizabeth Drummond, in memory of her brother, Captain Drummond, R.E., Under Secretary for Ireland. It is of the annual value of about £103, and is tenable for three years. By the Deed of Foundation (given at p. 198 of CALENDAR for 1865-66), it is open to Graduates in Arts of not more than three years' standing, who have graduated with Honours in the Department of Mathematics. Candidates must appear at the Final Honours Examination in Mathematics and Natural Philosophy. Their selection of papers for this examination must be made according to the regulations applicable to candidates for Honours (see p. 208). They may submit records of original research, and such records, if properly authenticated, will be taken into consideration by the Examiners. It cannot be held with any other bursary or scholarship. The holder is recommended to travel, for the purpose of inspecting, in this and other countries, remarkable engineering and architectural structures, to extend his knowledge of the practical application of Mathematical principles; and, if required by the Senatus Academicus, to deliver reports on the principal structures examined by him, and the Mathematical principles exemplified thereby; which reports the Senatus may cause to be publicly read in the University or elsewhere in Edinburgh. The next award may be made in June 1915.

1912, HYMAN LEVY, M.A., B.Sc.

Prox. acc. ANDREW NELSON, M.A.

EDMONDSTOUNE AYTOUN FELLOWSHIP IN ENGLISH LITERATURE.

This Fellowship is of the annual value of about £85, and is tenable for three years. Candidates must have taken the Degree of Master of Arts with Honours in English, and must have passed the last of the examinations necessary for that Degree not more than three years before the date of entry for any vacancy in the Fellowship. The subject of examination, which shall be announced at each election for the next vacancy, shall be *either* (a) a single author of importance (his life and works); *or* (b) a special period of English Literature; *or* (c) a special department or kind in English Literature, prose or verse. The Examiners for the Fellowship shall be the Professor of Rhetoric and English Literature for the time being, and an external examiner to be appointed by the Senatus. The next competition for the Scholarship will take place in January 1916.

Subject.—A Dissertation on "The literary poetry in English which a poet in the last quarter of the Fourteenth Century might have before him." (*Note*.—This question is to be dealt with specially, though not exclusively, by examination of the contents of the Auchinleck and Vernon MSS. Purely philological discussion is not required.)

Dissertations must be sent in by 3rd January 1916. These may be supplemented later by examination or otherwise, if necessary. For Foundation, *see* p. 589 of CALENDAR, 1905-6.

1913, CATHERINE M. MACLEAN, M.A.

FERGUSON SCHOLARSHIPS. (Open Sept. 1914.)

Six Scholarships, each of the annual value of £80 and tenable for two years. Three are competed for annually—one for Classics; one for Mathematics, including Natural Philosophy; and one for Mental Philosophy, including Logic, Psychology, Metaphysics, and Moral Philosophy. The examinations for 1914 will be held in Glasgow—the Classical *on the 22nd, 23rd, and 24th*, and the Mathematical and Mental Philosophical *on the 22nd and 23rd of September*.

The competition is open to "all persons who have passed the examinations required for the Degree of Master of Arts in one of the Universities of Scotland (whether taking the Degree at the same time or not) provided that at the time of the competition not more than six years have elapsed since the time of their first entering a class qualifying for the M.A. Degree, and who have not already gained one of these Scholarships." Candidates are required to enter their names at the office of the Ferguson Bequest Fund, 94 Bath Street, Glasgow, before 1st September 1914.

For further information apply at the Office of The Ferguson Bequest Fund, 94 Bath Street, Glasgow.

1912, *Classics*, ERNEST EVANS, M.A., Glasgow.

Mathematics, WILLIAM M. SMART, M.A., Glasgow } equal.
THOMAS H. BLACK, M.A., Glasgow }

Philosophy, BERTRAM M. LAING, M.A., Aberdeen.

1913, *Classics*, JOHN A. SIMPSON, M.A., Aberdeen } equal.
WILLIAM S. BROWN, M.A., Aberdeen }

Mathematics, HYMAN LEVY, M.A., Edinburgh.

Philosophy, MATTHEW W. ROBIESON, M.A., Glasgow.

FETTES EXHIBITIONS.

These Exhibitions are each of the annual value of £60, and are tenable for four years. They are open annually for competition, one among the Foundation students, and the other among the Foundationers and such other pupils as have attended Fettes College regularly for not less than five years.

GRAY SCHOLARSHIP.

This Scholarship, founded by Mr Gray of Baal Park in 1864, is of the annual value of about £98, and tenable for two years. It is awarded for distinction in one of the Honours groups of subjects for the Degree of Master of Arts, or in one of the groups of subjects for the Final Examination for the Degree of Bachelor of Science, or in the Historical and Philosophical subjects of the examination for the Degree of Bachelor of Laws, or to Students in the Faculty of Divinity for distinction in the Final Examination for the Degree of Bachelor of Divinity. It has been resolved that the Scholarship shall be offered in rotation in the Faculties of Arts, Science, Law, and Divinity. When it falls to the Faculty of Arts it will be offered in rotation in the order of the groups of Honours subjects in the Arts regulations (only undergraduates being eligible to compete); and when it falls to the Faculty of Science, it will be offered in one of the groups of the Second Science Examination. When not awarded in the Faculty in which it is offered, it will then be offered to the other Faculties in rotation. The holder of the Scholarship is required, as a condition of tenure, to satisfy the Senatus Academicus that he is pursuing special higher studies, or that he is engaged in original research, either in the University of Edinburgh or in another University approved by the University Court, and he must also satisfy the Senatus Academicus of the importance of the work he proposes to undertake, and of his qualifications for such work. In 1915 the Scholarship will be offered in the Faculty of Science.

1913 (Math.), W. G. McEWEN, M.A.

GUTHRIE FELLOWSHIP IN CLASSICAL LITERATURE

(Open March 1915.)

This fellowship, founded in 1866 by James Guthrie, Esq., London, is of the annual value of about £104, and is tenable for four years. By the terms of the Deed of Foundation (given at p. 210 of the CALENDAR for 1866-67) it is for proficiency in Classical Literature, and is open to Graduates in Arts of the University who have taken their Degree since the last competition. Students who have passed all their examinations for a Degree since the last competition, but have deferred graduating, are also eligible. It cannot be held along with any other fellowship or scholarship in the said Department in a Scottish University. The next competition may take place in March 1915.

1911, J. M. THOMSON, M.A.

HAMILTON PHILOSOPHICAL FELLOWSHIP.

(Open March 1915.)

This Fellowship, founded in 1866 by the subscribers to the fund for a Memorial to the late Professor Sir William Hamilton, and by the Association for the better endowment of the University, is of the annual value of about £106, and is tenable for three years. By the Deed of Foundation (given at p. 213 of CALENDAR for 1866-67), the Fellowship is open to all Graduates in Arts of the University of Edinburgh of not more than three years' standing at the time of the competition. It cannot be held along with any other scholarship or fellowship in any Scottish University. The subjects of examination are Logic, Metaphysics, Moral Philosophy, and the History of Philosophy. The next competition may take place in March 1915.

1912, D. M. BAILLIE, M.A.

HERIOT TRAVELLING SCHOLARSHIPS FOR TEACHERS OF MODERN LANGUAGES (MEN OR WOMEN). (One Scholarship, in German, may be open March 1915.)

The Scholarships (£100, tenable for one year) are open to Graduates in Arts of this University, of not more than four years' standing at the date of election as scholars, who have passed the Degree Examination (Honours or Ordinary) in one of the Modern Languages either before or after graduation, have attended an Honours Class in the Language for which the Scholarship is awarded, and who are, or intend to become, Teachers of Modern Languages. For further particulars apply to the Clerk of George Heriot's Trust, 20 York Place, Edinburgh, from whom schedules of application may be obtained, which must be lodged with him not later than 1st March.

1914 (French), MARY L. WILLIAMSON, M.A.

KAHN (ALBERT) TRAVELLING FELLOWSHIPS.

(See Appendix.)

KING EDWARD VII. BRITISH-GERMAN FOUNDATION.

(See Appendix.)

KIRKPATRICK HISTORY SCHOLARSHIP. (Open June 1915.)

This Scholarship, of the value of about £64, founded by the late Miss Annabella Kirkpatrick, will be awarded annually to the most distinguished First Class Honours Graduate in History of the year, whom failing, to the candidate who, during the two years immediately preceding the award, shall have attained the highest distinction in the ordinary Class of Constitutional Law and History, and in at least one other qualifying Class in History or in Political Science. For Foundation, *see* p. 592 of CALENDAR, 1905-6.

1914, THOMAS M. STEVEN, M.A., B.Sc. } equal.
JOHN YOUNIE, M.A.

LANG SCHOLARSHIPS.

This is a Bequest by the late John Lang, Esq., of Warren Park, Ayrshire, with the object of founding four Scholarships, to be called the "Lang Scholarships," one in Natural Philosophy, one in Mathematics, one in Chemistry, and one in Botany. The capital sum will be payable on the death of the survivor of two liferenters.

MACKAY SMITH SCHOLARSHIP IN NATURAL PHILOSOPHY.

(See under Faculty of Science.)

MACKENZIE CLASSICAL SCHOLARSHIP.

This Scholarship was founded in 1862, by James Mackenzie, Esq., W.S. It is of the annual value of about £118, and is tenable for four years; and the award carries with it free admission to the Edinburgh Philosophical Institution during the years of tenure. By ordinance No. 90 of the Scottish Universities Commissioners of 1858, it is open for competition to all Graduates in Arts in the University of Edinburgh of not more than three years' standing at the time of the competition. Candidates are examined in CLASSICAL LITERATURE and in ENGLISH LITERATURE, and the Examination is conducted by three or more Examiners selected by the Senatus from their own body. It cannot be held along with any other scholarship, fellowship, or bursary of any Scottish University. The Examinations include—1. Translations from Latin and Greek authors; 2. Composition in Latin and Greek Prose; 3. Latin and Greek Literature, and History; 4. English Essay-Writing; 5. History of English Literature. The competition will take place in March 1917.

1913, D. C. MACGREGOR, M.A.

Prox. acc. JAMES B. TAYLOR, M.A.

MACLAREN (CHARLES) SCHOLARSHIP. (Open June 1915.)

This Scholarship, founded in 1871 by the Trustees of Mrs Maclaren, in memory of Charles Maclaren, Esq., the eminent geologist, is of the annual value of about £116, and is tenable for three years. It is for the encouragement of the study of Mathematics and Natural Philosophy, and is open to all graduates in Arts of not more than three years' standing at the time of the competition (and under thirty years of age) who shall have taken honours in Mathematics. Candidates must appear at the Final Honours Examination in Mathematics and Natural Philosophy. Their selection of papers for this examination must be made according to the regulations applicable to candidates for Honours (see p. 208). They may submit records of original research, and such records, if properly authenticated, will be taken into consideration by the Examiners. The successful competitors are to spend a few months in travelling and in examining remarkable engineering and architectural structures, and to submit a report to the Senatus, which report the Senatus may cause to be

publicly read in the University. The Scholarship cannot be held along with any other scholarship, fellowship, or bursary of any University, or with any situation or appointment yielding an annual income of £100. The Deed of Foundation is given at p. 324 of CALENDAR for 1873-74. The next competition will be in June 1915.

1911, A. M. WILLIAMS, M.A., B.Sc.

MACPHERSON SCHOLARSHIP. (Open June 1915.)

This Scholarship is awarded annually by the Senatus Academicus to a student who has, within six years of the date of the competition, completed the examination necessary for the degree of Master of Arts in the University of Edinburgh, with or without honours, who has included in his examination the subjects of Latin and Greek, and who has attended the class of Celtic and attained distinction in that subject. The scholar must study Celtic in a University or other place offering special facilities for Celtic study, subject to the approval of the Senatus Academicus. The Scholarship is of the value of about £91 (less fees to Examiners), and is tenable for one year. Before 15th February next after his appointment the scholar must submit to the Senatus Academicus a report of the work he has done, and of such further studies in Celtic as he proposes to prosecute, and the Senatus Academicus may, if they think fit, appoint him to the said Scholarship for a further period of one year. In the case of a scholar being reappointed for a second year a new scholar cannot be appointed till the following year.

1914, DOUGALD CAMERON.

MORAY (EARL OF) ENDOWMENT FOR THE PROMOTION OF ORIGINAL RESEARCH.

1. The available income (which amounts to over £800 per annum) is, in the first place, applied to the payment of the actual expenses of the prosecution of Original Research, present or contemplated, intended and likely to increase existing human knowledge, in any of its departments. In such expenses would be included apparatus, special accommodation, specimens, chemical substances, books, journals, pamphlets, reproductions of manuscripts, etc., and actual maintenance and travelling expenses, in so far as they are shown to be necessary for the purposes of research, provided that it shall be permissible to furnish out of the income such specific additions to the Library as may be deemed necessary to stimulate and aid research. All apparatus, specimens, books, journals, pamphlets, etc., and all unused chemical substances shall, at the termination of the research, be returned, or otherwise accounted for to the University.

2. Any surplus income after meeting the claims defined in 1, above, may be expended in (a) the printing and publishing of noteworthy results, including illustrations for papers containing such results; and (b) the payment, after careful consideration of all the circumstances, of such grants of money as may be necessary to enable applicants to enter upon or carry on the work of research, or to encourage the prosecution of research.

3. All graduates and other members of the University, "or other

persons who have given satisfactory proof of general education and of fitness to engage in some special study or research," are entitled to apply for assistance.

4. In so far as the subject of the research admits, the investigation shall be conducted in the buildings of the University.

5. Applications will only be considered at the November, January, and May Meetings of Senatus. Any application should be in the hands of the Secretary of Senatus *at least two weeks* before the date of the Meeting at which it is to be considered. *See Regulations in CALENDAR for 1897-98, p. 428.*

NICHOL FOUNDATION. (Open 1915.)

The free yearly interest or income derivable from this foundation, amounting to about £50, shall be paid to a deserving student, who shall regularly attend and devote himself as assistant in the Physical Laboratory, and who shall be bound to give his whole time in promoting the study of Natural Philosophy in connection therewith. It is tenable for one year, but on the recommendation of the Professor of Natural Philosophy it may be continued for a second year or longer. It cannot be held along with any bursary or scholarship. *See Deed of Foundation in CALENDAR for 1897-98, p. 419.*

1913, T. G. IRONSIDE, M.A., B.Sc.

PITT CLUB CLASSICAL SCHOLARSHIP

The Pitt Club Scholarship, of the annual value of about £79, tenable for four years, is open for competition to all Graduates in Arts of the University, of not more than four years' standing when the competition takes place. The subjects embraced in the examination are CLASSICS and ENGLISH LITERATURE. The next competition may take place in March 1918.

1914, G. T. PRINGLE, M.A.

RHIND SCHOLARSHIPS. (*Candidates may be open March 1915.*)

These Scholarships were, in accordance with the will of the late A. H. Rhind, Esq., of Sibster, founded by his trustees on the reversion of his estate. They are two in number, one in the Department of Classical Literature, the other in that of Philosophy, are each of the annual value of about £100, are tenable for not less than two years, or more than three years, and are open to Undergraduates and to Graduates of not more than three years' standing at the time of the competition. Competitors must have attended classes in this University for not less than three academic years, attendance being defined to mean that the competitors must present Certificates of having attended at least four classes during the period aforesaid, and of having duly performed the work of the classes. The successful Candidates may be required to undertake duties connected with the teaching of the University, or otherwise assist in some department of its operations. *See Deed of Foundation at p. 323 of CALENDAR for 1874-75.* The next competition for the Classical Scholarship may take

undertake. The holders are required in all cases to satisfy the Senatus, by half-yearly reports, that they are carrying out the work undertaken; and must present a final report or deliver a short Course of Lectures on their work when completed. The appointment is made by the Senatus on a report by the Faculty of Arts on the merits of the applicants. Preference will be given to Candidates desiring to undertake work in the following groups of subjects, under the following scheme of rotation, provided always that a suitable Candidate presents himself:—(1) Classical Languages and Classical Archaeology; (2) Mental Philosophy; (3) Mathematical and Physical Science; (4) Semitic and Indian Languages; (5) English and Modern Languages; (6) History. The appointment of a Preferential Candidate will not change the rotation of the groups. The last award to a Non-Preferential Candidate was in the group of English and Modern Languages. In 1915, failing a Preferential Candidate, the Scholarship will be awarded in the next group in the above rotation, provided there be a suitable Candidate. Failing a suitable Candidate, it will be open in the following group. *See* Deed of Foundation in CALENDAR for 1897-98, p. 419.

1914, ALEXANDRINA MAKIN, M.A. (Classics).

SHAW FELLOWSHIP IN MENTAL PHILOSOPHY.

This Fellowship, founded in 1867 by contributors to a Memorial to Sir James Shaw, Bart., a native of Ayrshire, afterwards Lord Mayor of, and M.P. for, London, and by the Association for the better endowment of the University, for the encouragement of the study of Logic, Psychology, Metaphysics, Moral Philosophy, and the History of Philosophy, is awarded after competitive examination on these subjects. It is open to Graduates in Arts of any of the four Scottish Universities, of not more than five years' standing at the time of the competition, is of the annual value of about £170 (less fees to Examiners), and is tenable for five years. It cannot be held along with any other fellowship, scholarship, or bursary in any Scottish University, and it is not open to the competition of any person who already holds a fellowship in any English or Irish University, though the holder of the Shaw Fellowship will not be precluded from afterwards obtaining an English or Irish fellowship. The holder is required during the fourth or fifth year of his tenure of the Fellowship to deliver in this University a Course of four Lectures on any of the subjects for the encouragement of the study of which the Fellowship was founded. The next competition for the Fellowship may take place in December 1918 at the beginning of the Christmas vacation. (Deed of Foundation, p. 237 of CALENDAR for 1868-69.)

1913, G. A. JOHNSTONE, M.A. (Glasg.).

Prox. acc., M. W. ROBIESON, M.A. (Glasg.), and H. J. W. HETHERINGTON, M.A. (Glasg.).

SKIRVING SCHOLARSHIP IN MORAL PHILOSOPHY.

This Scholarship, founded in accordance with the Will of the late David Skirving, of No. 13 Westbourne Park, London, is of the annual value of about £45, and is tenable for three years. *See* Deed of Foundation at p. 350 of CALENDAR for 1876-77.

SWINEY LECTURESHIP ON GEOLOGY. (Page 441.)**VANS DUNLOP SCHOLARSHIPS.**

TEN VANS DUNLOP SCHOLARSHIPS, each of the annual value of £100, and tenable for three years, are, by the Deed of Foundation, appropriated to the following subjects:—1. English Literature and Poetry; 2. Classical Learning—Latin and Greek; 3. Political Economy; 4. Logic and Metaphysics; 5. Natural Philosophy; 6. Mathematics; 7. Hebrew and Oriental (Semitic) Languages; 8. History; 9. Moral Philosophy; 10. Sanskrit and Comparative Philology; 11. Modern Languages. In terms of the Trust-Disposition (which is given at p. 380 of CALENDAR for 1880-81), the Scholarships are given only for "distinguished proficiency" in the various subjects of competition, as determined by the Examiners and the Senatus Academicus.

Each Scholarship is tenable on condition that the scholar submits annually to the University evidence that he is prosecuting his studies, or his professional work, in a manner satisfactory to the Senatus. The evidence generally may consist of—(1) Certificates of attendance on Lectures or Laboratories in this or some other University; or (2) Certificate of having acted as Assistant to a Professor in this or some other University; or (3) A written Report of work done by the Scholar during the year, together with a Thesis composed by himself on a subject connected with that work. For the Natural Philosophy Scholarship, Scholars will be required in the first year of tenure of the Scholarship either to pursue a course of Laboratory study or to engage in Experimental Research, and in the second and third years either to pursue a course of Advanced study in Mathematical Physics, or to engage in Experimental Research—the work for each year to be approved by the Senatus.

Not more than one of these Scholarships can be held by the same person, and Vans Dunlop Scholars cannot hold, along with their Scholarship, any other Fellowship, Scholarship, or Bursary in the University of Edinburgh.

Candidates for the Vans Dunlop Scholarships must, on entering for the Examinations, produce evidence that they have fulfilled the conditions of eligibility.

Candidates, if not already matriculated, are required to pay the Matriculation Fee for the year in which the competition takes place.

The names of Candidates highly distinguished in the Vans Dunlop Scholarship examinations may be published.

English Literature and Poetry. (Open June 1915.)

Candidates are subjected to an Examination testing—(1) Knowledge of the History of English Literature generally, and more particularly through a prescribed period; (2) Acquaintance with certain books, chiefly of English Poetry, prescribed for special reading; (3) Ability in English Composition, in the form of an Essay, written in the Examination Room, on some subject of literary criticism.

The Examination (which will be combined as far as possible with

that for Honours) will include, besides the Class Lectures, (a) Independent Knowledge of the History of English Literature, and (b) of the following works :—

Chaucer's *Prologue to the Canterbury Tales*; *Knight's Tale*; *Troilus and Cressida*; Langland's *Piers the Plowman*, Passus i.-iv.; Malory's *Morte d'Arthur*; Dunbar's Poems; Spenser's *Shepherd's Calendar* and *Faery Queene* (Books v. and vi.); Marlowe's *Edward II.*; Shakespeare's *Tempest*, *Love's Labour's Lost*, *Winter's Tale*, *Romeo and Juliet*, *Othello*, *Cymbeline* and *Sonnets*; Jonson's *Every Man in his Humour*; Bacon's *Essays*; Milton's *Paradise Lost*, i.-iii.; *Sonnets*, and *Areopagitica*; Brown's *Urn-Burial*; Cowley's *Pindarique Odes*; Dryden's *Essay of Dramatic Poesy*, the *Defence of the Essay*, *Conquest of Granada*, and *Abraham and Achitophel*; Pope's *Essay on Criticism*, *Satires*, and *Fables*; Swift's *Tale of a Tub*; Johnson's *Lives of Cowley, Dryden, Pope, and Swift*; Gray's Poems; Cowper's *Task* and *Minor Poems*; Burns' Poems; Scott's Poems; Wordsworth's *Laxation*, Books i. and ii., *Prefaces*, *The Lyrical Ballads*; Coleridge's *Christabel* and *Kubla Khan*; Byron's *Childe Harold*; Shelley's *Adonais Lyrics*; Keats's Poems; Tennyson's Poems before 1859; Browning's *Dramatic Lyrics*, *Dramatic Romances*, and *Dramatis Personae*.

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than five years have elapsed since the time of their first entering a class qualifying for the M.A. Degree; provided also that they have given regular attendance in the Class of Rhetoric and English Literature, and in at least one other class in English Language or Literature. The competition will take place in June 1915.

1912, CATHERINE M. MACLEAN, M.A. 170-171.
BERTHA D. WRIGHT
Hon. Ment. MARJORY BALD.

Classical Learning—Latin and Greek. (Open Oct. 1914.)

1. *Latin*.—The Examination will test :—

- (a) Power of Latin Composition, and of translating from Latin authors not previously prescribed.
- (b) Knowledge of Roman History and Literature.

2. *Greek*.—(a) Power of Greek Composition, and of translating from Greek authors not prescribed.

- (b) Knowledge of Greek History and Literature.

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than four years have elapsed since the time of their first entering a class qualifying for the M.A. Degree; provided also that they have given

regular attendance in the Latin and Greek Classes necessary for graduation in Arts.

The next competition will take place in October 1914.

1911, JAMES BRAID TAYLOR.

Distinguished in examination—

THOMAS M. COOPER.

ROBERT KERR.

Political Economy.

The Examination will test knowledge of the subjects assigned in the Deed of Endowment to the Chair of Commercial and Political Economy and Mercantile Law. It will include the subjects embraced in the Lectures, and also in books prescribed from time to time by the appropriate Board of Studies. The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than five years have elapsed since the time of their first entering a class qualifying for the M.A. Degree; provided also that they have regularly attended the Class of Political Economy. The next competition will take place in October 1916, when the subjects of Examination will be the books set in Political Economy for Honours in Economic Science in 1913, p. 192.

1913, N. K. PATERSON.

Logic and Metaphysics. (Open June 1915.)

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than four years (or, in the case of those who have taken Honours in a group other than Mental Philosophy, five academic years) have elapsed since the time of their first entering a class qualifying for the M.A. Degree; provided also that they have completed attendance on the Ordinary Class of Logic and Metaphysics. The next competition will take place in June 1915.

1912, H. F. HALLETT, M.A.

Natural Philosophy.

The Examination will consist of the three Natural Philosophy papers of the Intermediate Honours Examination in Mathematics and Natural Philosophy, any one of the seven Natural Philosophy papers of the Final Honours Examination of the same department, and a special paper on Physical Experimental Methods and the Theory of Errors. Properly authenticated records of laboratory work, or of the results of original research, may be submitted by Candidates as additional evidence of proficiency, and if submitted will be taken into consideration.

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than six years have elapsed since the time of their first entering a class qualifying for the M.A. Degree; provided also that they have attended at least two of the classes in Natural Philosophy, of which either the Ordinary Class or the Senior Practical Class must be one.

The next examination will take place in June 1916.

1913, GEORGE SHEARER, M.A., B.Sc.

Mathematics.

The examination will test Candidates in pure mathematical subjects in the Honours Department for the Degree of Master of Art, and in special subjects to be prescribed by the examiners from time to time.

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than six years have elapsed since the time of their first entering a class qualifying for the M.A. Degree; provided also that they have attended at least two of the Mathematical Classes, one of these being an Honours Class.

The next examination will take place in June 1916.

1913, A. W. YOUNG, M.A.

Hebrew and Oriental (Semitic) Languages.

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than seven years have elapsed since the time of their first entering a class qualifying for the M.A. Degree; provided also that they have attended at least two courses under the Professor of Hebrew and Oriental Languages.

Candidates will be examined in Hebrew, and either Syriac or Arabic.

The next competition will take place at the end of March 1916.

1913, WILLIAM CRAWFORD, M.A.

History.

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than five years have elapsed since the time of their first entering a class qualifying for the M.A. Degree; provided also that they have attended at least two classes qualifying for Graduation in History within the University.

Six papers will be set, on the following subjects :—(1) A General Paper ; (2) English History—General and Constitutional ; (3) Special Period of English History, 1399-1603 ; (4) European History, 1494-1603 ; (5) Scottish History, 1424-1603 ; (6) Greek History, B.C. 433-338.

The next competition will take place in October 1916.

1913, LAURANCE J. SAUNDERS.

Moral Philosophy.

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses ; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than four years (or, in the case of those who have taken Honours in a group other than Mental Philosophy, five academic years) have elapsed since the time of their first entering a class qualifying for the M.A. Degree ; provided also that they have completed attendance at the Ordinary Class of Moral Philosophy.

The next competition will take place in June 1917.

1914, JAMES M'KENZIE, M.A.

Sanskrit and Comparative Philology.

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses ; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than six years have elapsed since the time of their first entering a class qualifying for the M.A. Degree ; provided also that they have attended at least two courses, in two separate years, under the Professor of Sanskrit and Comparative Philology.

The next competition will take place in March 1916.

1913, B. R. HANDOO.

Modern Languages. (Open March 1915.)

Regulations will be issued early in the Session.

WARDLAW (D. R.) MEMORIAL BEQUEST.

In 1907 Miss Margaret Wardlaw, 9 Hope Terrace, Edinburgh, bequeathed £2000 and a share of the residue of her estate, the annual income of which, amounting at present to about £90, is to be applied by the University Court, under such regulations as they may frame from time to time, for behoof of indigent and deserving students of the University of Edinburgh, in any Faculty, and of either sex, who may be temporarily incapacitated from pursuing their studies in consequence of illness or personal injury ; or, in so far as not required for the class above described, for behoof of students of the University who are indigent and deserving though not so incapacitated. Applicants for the benefit of the Fund are required to apply to the Deans of their respective Faculties, not later than 30th October 1914.

II. Bursaries.

(ARRANGED ALPHABETICALLY.)

Notes.—(1) The values of Bursaries are stated *approximately*.

(2) When no statement is made to the contrary, the Patronage is in the hands of the Senatus.

(3) Women are not eligible for Bursaries founded prior to 30th August 1864, nor for any of the Town Council Bursaries.

For information regarding the Bursary Examinations, Conditions of Tenure, etc., see page 291.

ALLAN. (Open May 1915.)

Founded in 1886, by Richard Allan, Fear, Kelso. Three Bursaries: each £30 a year, for 3 years. Patrons, the Trustees of Richard Allan.

These Bursaries are available to Students attending classes in any of the Faculties of Arts, Medicine, or Law, in the University of Edinburgh, or to Students attending the classes in said University necessary for Degrees in Science; and are tenable for three years, or for such part of that period as the Bursar shall remain a Student at the University. In nominating Candidates for presentation to the Bursaries, preference will be given to such as have been born in the parish of Kelso, provided they are qualified by their previous education for entering the University. Applications to be lodged with Messrs P. & J. Stormonth Darling, Writers, Kelso, in May annually. Bursary awarded in June.

1911, W. A. ANDERSON.

1912, J. W. McDUGAL.

1913, WILLIAM BAITFENY.

ANGUS CLUB. See Dalhousie.

ARCHIBALD OR M'GUFFIE. (May be open June 1915.)

Founded in 1914 by the Rev. George M'Guffie.

A preference will be given to students bearing the name of Archibald or M'Guffie, who have been born in one of the parishes of Dollar, Tillicoultry, or Whithorn, or educated in any of the schools of these parishes; whom failing, to any youths born in any of the said parishes or educated in any of the said schools, although not bearing either of the said names. See Deed of Foundation, p. 799 of CALENDAR for 1914-15. Detailed Regulations will be issued early in the Session.

ARDVORLICH. (Open Sept. 1914.)

Founded in 1870, by Stewart of Ardvorlich. One Bursary: £15, 12s. 10d. a year, for 4 years. Patron, the Proprietor of the Estate of Ardvorlich.

The Bursary is open to Students of Arts, natives of the parishes of Comrie, Balquhiddier, Callander, or Killin, failing whom, to natives of

Perthshire, and failing such, to the best qualified candidate. Candidates must show that they require aid in obtaining a University education. Latin, Greek, French, and German have equal marks in the Examination for the Bursary; and candidates will also be examined in Preliminary Gaelic. Bursars must attend Arts or Science classes; and the Bursary cannot be held with any other Bursary exceeding £25 annually. For remodelled Foundation, see *CALENDAR*, 1887-88, p. 501; for original deed, see p. 275 of *CALENDAR* for 1870-71.

1910, WILLIAM F. PAUL.

ARGYLLSHIRE.

Founded in 1869, by the Argyllshire, Bute, and Western Isles Association. One Bursary: about £20 a year, for 3 years. Patrons, the Association.

Candidates (male or female) must be natives of Argyllshire, Bute, or Western Islands. Subjects of Examination: English, Latin, Mathematics, and any one of the following:—French, German, Greek, Gaelic, with additional papers, and full marks in each subject taken. Application to be made to the Secretary of the Association, 57 Queen Street, Edinburgh.

1911, JOHN MACIVER.

ASSOCIATION (EDINBURGH) FOR THE UNIVERSITY EDUCATION OF WOMEN.

Four Bursaries were founded in connection with the classes of the above Association, and have been awarded to Students of Edinburgh University since the admission of Women to teaching and graduation in 1892. See *HOULDSWORTH, MAIR, VICTORIA JUBILEE, and ZETLAND.*

AUCHAIRNE. (Open Sept. 1914.)

Founded in 1906, by Miss H. C. Donaldson of Auchairne. Three Bursaries: each about £58 a year, for 3 years.

The Bursaries are open to natives of the County of Ayr. One Bursary will be awarded each year. For Deed of Foundation, see *CALENDAR* for 1907-8, p. 613.

1912, ALEXANDER K. MACKAY.

1913, JOHN HENDERSON.

AYRSHIRE CLUB. (One Bursary open June 1915.)

Founded in 1858, by the Edinburgh Ayrshire Club. Two Bursaries: each £30 a year, for 3 years. Patrons, the Club.

The Bursaries are restricted to natives of Ayrshire, men or women; and a Bursary is offered for competition in each alternate year. Apply to the Secretary of the Club, G. D. Valentine, Esq., Advocate, c/o J. D. Boswell, Esq., W.S., 41 Northumberland Street, Edinburgh, not later than 20th May 1915.

1911, FLORA SADLER.

1913, ANDREW LANG.

BAXTER OF BALGAVIES. (May be open Sept. 1914 and June 1915.)

Founded in 1897, by the Misses Baxter of Balgavies. Three Bursaries : each £30 a year, for 3 years.

The Bursaries are open both to men and women who have been educated in the High School of Dundee for at least one year immediately preceding the competition. The subjects of Examination, for two of the Bursaries, are the same as for the Open Bursaries in Arts. The successful candidates may study for the Degrees of M.A., B.Sc., B.L., LL.B., or M.B., Ch.B. The successful candidates must have passed the Preliminary Examination in Arts or Science, or its equivalent. The subjects of examination for the third Bursary are Mathematics and Physical Science. Candidates may study for M.A., B.Sc., or M.B., Ch.B. The examination for this Bursary is conducted in Dundee by Examiners appointed by the Directors of the High School. Intending candidates for any of the Bursaries must communicate with the Secretary of the above School.

1911, ELSIE DOIG.

1912, GEORGE B. BURNET.

1913, WM. A. AMES.

BLAIR. (Open Sept. 1914.)

Founded in 1838, by Robert Blair, D.D., Barton St Andrews, Norfolk.

One Bursary : £10, 10s. a year, for 3 years. Patrons, the Principal, and the Professors of Latin, Greek, Mathematics, Logic and Metaphysics, and Moral Philosophy.

1911, R. G. SIMMINS.

BORDER COUNTIES ASSOCIATION AND SIR WALTER SCOTT. (No. 1 may be open June 1915.)

Two Bursaries—(1) The *Border Counties Association Bursary*, founded in 1869, by the Edinburgh Border Counties Association : £20 a year, for 4 years ; (2) The *Sir Walter Scott Bursary*, founded by the same Association in 1872 : £30 a year, for 4 years. Patrons, the Edinburgh Border Counties Association.

These Bursaries are for Students entering upon the regular curriculum in Arts, Science, or Medicine with a view to graduation. They are open to competition by Scholars of both sexes who have attended a school in any of the Counties of Roxburgh, Berwick, or Selkirk, or the Burgh of Berwick-on-Tweed, for two complete sessions immediately prior to the time of their examination for the Bursaries. Subjects : English, and two others selected by the Candidate. Applications to be made to Stuart Douglas Elliot, S.S.C., 40 Princes Street, Edinburgh. *Border Counties Association* may be open in 1915 ; *Sir Walter Scott* may be open in 1917.

1911, EDITH M. BEVERIDGE (*Border Counties*).

1913, FRANCIS C. WATT (*Sir Walter Scott*).

See also **Strang Steel**.

BROWN.

Founded in 1714, by the Rev. Robert Brown of the Protestant Consistory at Zamose. Two Bursaries: one of £14, 13s. 2d. a year, the other of £9, 15s. 6d. a year, and each for 4 years. Patrons, the Town Council of Edinburgh.

Apply, between 1st and 20th May, to the Town Clerk, Edinburgh.

1913, JAMES P. DAVIE, J. D. W. MILLS.

BRUCE. (Two Bursaries open Sept. 1914 and two June 1915.)

Founded in 1853, by John Bruce, Esq., Trinity Crescent, Edinburgh. Five Bursaries: one of £40 a year, and four of £30 a year, for 4 years in each case. Patrons, the Town Council of Edinburgh.

Apply, in July, to the Town Clerk, Edinburgh.

1911, JAMES G. SHEARER, GEORGE MORGAN.

1912, ANGUS MACRAE.

BRUCE OF GRANGEHILL AND FALKLAND.

(Open Sept. 1914 and June 1915. See below.)

Founded in 1865, by Mrs Margaret Tyndall Bruce of Falkland. (1) Three *First Year* Bursaries: each £20 a year, for 3 years. (2) Three *Second Year* Bursaries: each £35 a year, for 3 years.

(1) Two *First Year* Bursaries will be open in September 1914.

(2) One *Second Year* Bursary is awarded annually.

1912 (*Second Year*), J. I. MILLER.

1913 (*Second Year*), JAMES A. HART.

BRYSON.

Founded in 1702, by Thomas Bryson, Bailie and Merchant in Dunbar. Two Bursaries: each £12 a year, for 4 years. Patrons, the ministers of the Presbytery of Dunbar.

The Bursaries are tenable at any of the Scottish Universities. The Bursars must first enter the Humanity class: afterwards pass through the rest of the classes in Arts until their Laureation; at which time, if judged by the ministers of the Presbytery of Dunbar fit for the study of Theology, they may continue for two years in Theology. May be open in 1916.

1912, CHAS. W. STOBIE, WM. S. BUCHAN.

CAITHNESS. (Open 1915.)

Founded in 1864, by the Edinburgh Caithness Association. One Bursary: £15 a year for 4 years. Patrons, the Association.

The Bursary is open in June 1915. Apply to the Secretary of the Association, William Gunn, S.S.C., 15 Queen Street, Edinburgh.

See also **Rhind.**

CHRYSTIE.

Founded in 1698, by Adam Chrystie, one of the Under Clerks of Session. One Bursary: about £15 a year for 4 years. Patrons, the Dean and Faculty of Advocates.

This Bursary is generally awarded to a first year student in Arts, but may be given to a student in any Faculty, at any stage of his studies. It cannot be held along with any other Bursary of greater value. Candidates are referred for information to the Clerk to the Faculty of Advocates' Library. Open in 1917.

1913, JAMES H. CLARKE.

COUSIN. (Open June 1915.)

Founded in 1890, by Bailie George Cousin. One Bursary: about £33 a year, for 3 years.

The Bursary cannot be held along with any Fellowship, Scholarship, or Bursary of any Scottish University, or with any situation or appointment yielding an annual income of £30 or upwards. For Deed of Foundation, see CALENDAR for 1891-92, p. 536.

1912, CHARLES B. MACALPINE.

COWAN. (Open Sept. 1914 and June 1915.)

Founded in 1870, by David Cowan. Patrons, the Governors of Ayr Educational Trust.

These Bursaries are open to pupils of Ayr Academy who propose to attend the University of Edinburgh. At least one Bursary is available each year; and its amount and the conditions of its award are fixed by the terms of the Bursary scheme for that year issued by the Ayrshire County Committee. Information will be afforded by J. H. Goudie, Esq., Ayr Educational Trust, Ayr.

1912, MARION S. HALLIDAY.

1913, JESSIE C. BINNIE.

DALGLEISH AND M'MORRAN. (Open Sept. 1914.)

Founders, James Dalgleish, 1644, and John M'Morran, 1673. One Bursary: £13, 11s. 2d. a year for 4 years. Patrons, the Town Council of Edinburgh.

Apply, in July, to the Town Clerk, Edinburgh.

1910, E. J. WILSON.

DALHOUSIE.

Founded in 1872, by the Angus Club. One Bursary: £25 a year, for 4 years. Patrons, the Angus Club. Open to candidates of either sex, entering the University of Edinburgh for the first time, with a view to graduating in Arts. Preference will be given to natives of the County of Forfar who have been educated at a school or schools within the county;

whom failing, to candidates (*a*) who are natives of the county ; (*b*) both of whose parents are natives of the county ; or (*c*) who have received the greater part of their education in a school or schools in the county. The subjects are as for first year University Bursaries. For further particulars apply to Ronald Burness, W.S., 12 Hope Street, Edinburgh. May be open in 1916.

1912, WILLIAM J. ANDERSON.

DONALDSON. See **Auchairne**.

DOW.

Founded in 1837, by Peter Dow, Esq., of Balmyle. Two Bursaries : each of £10 a year, for 4 years. Patrons—P. S. Keir, Esq., of Kindrogan ; J. Small, Esq., of Dirnanear ; and W. A. Keir, Esq., Yr., of Kindrogan.

The Bursaries are tenable for four years, "at any of the Scottish Universities, St Andrews in preference." Apply to the Patrons.

DUART. See **Stewart (James)**.

DUNDAS. (Open June 1915. See below.)

Founded in 1734, by Laurence Dundas, Professor of Humanity in the University of Edinburgh. Two Bursaries : each about £36 a year, for 4 years. Patrons—(1) Admiral Dundas of Dundas, (2) Dundas of Arniston, and (3) Dundas of Carronhall, by turns.

Applications to be made to the agents for the respective Patrons—(1) Lindsay, Jamieson, & Haldane, C.A., 24 St Andrew Square, Edinburgh ; (2) J. & F. Anderson, W.S., 48 Castle Street, Edinburgh ; (3) Mackenzie & Black, W.S., 28 Castle Street, Edinburgh. One Bursary open June 1915 ; Patron, Admiral Dundas.

1911, E. R. G. JONES (Dundas of Arniston).

1913, DAVID R. CRAMB (Dundas of Carronhall).

DYKE. See **Gillan**.

FAIRBAIRN (JAMES).

Founded in 1887, by Mrs Kidd, of Palmyra, Aighburth, near Liverpool. One Bursary : £33, 4s. 6d. a year, for 4 years.

The Bursary was founded in memory of James Fairbairn, late Governor of Heriot's Hospital. The Bursar is required to take the Degree at the end of the Course. The Bursary cannot be held along with any other Bursary or Scholarship. See Deed of Foundation, p. 501 of CALENDAR, 1887-88. May open in 1916.

1912, ARTHUR S. CLARK.

FORD. (Two Bursaries open June 1915.)

Founded in 1678, by Hector Ford of Branxton. Three Bursaries : each £10, 17s. 2d. a year, for 4 years. Patrons, the Town Council of Edin-

burgh. A preference is given to candidates of the surname of Ford, or, failing them, to youths born in the parishes of Dunbar and Innerwick, or "brought up and bred within the schools of these two parishes."

These Bursaries cannot be held along with any other Bursary in the University. Apply, between 1st and 20th May, to the Town Clerk, Edinburgh.

1911, G. G. DOUGHTY, G. M. JENKINS.

1913, LAWRENCE KERR.

FORRES. See Gillan.

FOTHRINGHAM AND FORREST.

(One Bursary open September 1914.)

Founded in 1876, by J. Fotheringham of Heathpool. Two Bursaries: each about £25 a year, for 4 years.

The Bursaries are restricted in the first place to relatives of the Founder, in the second to such as are of the name of Fotheringham, and in the third place to such as are of the name of Forrest; and, failing all these, are awarded as open Bursaries. The successful candidate must take the Degree of M.A.

1911, JOHN R. MARTIN.

1913, PETER FORREST (*Perferenda*).

FRASER (DONALD). (Open June 1915.)

Founded in 1891, by Donald Fraser, M.D., London, and the Edinburgh University Endowment Association. One Bursary: about £50, for one year.

The Bursary is awarded annually for high merit in the University Class of Natural Philosophy, combined with proficiency in Laboratory Work. The Bursar is required to give assistance in the University Physical Laboratory, and to engage in research there. The Bursary cannot be held along with any other Fellowship, Scholarship, or Bursary in any Scottish University. See Deed of Foundation, p. 545 of CALENDAR for 1891-92.

1913, A. S. TENNANT, M.A.

1914, JANETTE G. DUNLOP, M.A.

FRASER (THOMAS).

Founded in 1768, by Thomas Fraser, Clerk in the office of Town Clerk, Edinburgh. Two Bursaries: each about £22 a year, for 7 years. Patrons, the Provost, Dean of Guild, and Treasurer of Edinburgh.

Bursars must take the Degree in the Faculty of Arts. The Bursars are held for three years thereafter; the Bursars making their election whether to follow Divinity, Law, or Medicine. Two Classes at least must be attended each year. Apply, in July, to the Town Clerk, Edinburgh. May be open in 1917.

1910, JAMES DAWSON.

1911, JOHN THORBURN.

1913, E. R. T. GRIMSTON.

GILLAN. (Open 1914. See below.)

Founded in 1878, by James Gillan, Draper, Forres. Three Bursaries : each £35 a year, for 7 years. Patrons, Mr Gillan's Trustees.

These Bursaries are for the support, at the University, and at the New College, Edinburgh, of two young men connected with the Parish of Forres, and one connected with Dyke, who have declared their intention to study for the ministry of the U.F. Church of Scotland. For particulars apply to Messrs R. & R. Urquhart, Solicitors, Forres. The Dyke Bursary may be open in 1920, and a Forres Bursary is open in 1914.

THOMAS C. HENDRY, JOHN MUNRO.
1913, JOHN B. RUSSELL (Dyke).

GLENBUCK.

Founded in 1887, by Charles Howatson, Esq., of Dornel and Glenbuck. One Bursary : about £20 a year, for 3 years. Patrons, the Trustees.

The Bursary may be held by a Student (male or female) in any Faculty of any of the four Scottish Universities—preferably that of Glasgow or of Edinburgh. Candidates must be under twenty years of age at the date of election ; and only those are eligible who have resided not less than five years in the Parish of Muirkirk, and who have received part of their education at any school therein, or alternatively and postponed thereto, those who have been resident in any one of the parishes of South Ayrshire for not less than five years, and who have received part of their education in any school in the same parish. For further particulars apply to Mr R. A. Leslie, Inspector, Muirkirk. Open in August 1917.

GRANT. (Two Bursaries open in 1914 and 1915. See below.)

Founded in 1809, by Dr Donald Grant, London. Four Bursaries: each about £45 a year, for 4 years. Patrons, the Earl of Seafield, and James Mackenzie, W.S., as Dr Grant's Trust ; whom failing, the Senatus Academicus.

The Bursaries are tenable in the Faculties of Arts, Science, Divinity, Law, or Medicine. Applications for information may be made to Messrs Mackenzie, Innes, & Logan, W.S., 25 Melville Street, Edinburgh. Two Bursaries will be open in 1914, and two in 1915.

ARTHUR B. GRANT, DUNCAN MACMILLAN, JOSEPH GRANT,
RODERICK CAMERON.

GRIERSON. (Two Bursaries open Sept. 1914 ; also open June 1915.)

Founded in 1873, by the Grierson Trustees. Five Bursaries : one of £24 a year, and four of £20 a year, all tenable for 4 years.

The Bursaries are restricted in the first place to natives of either of the parishes of Crawford or Leadhills. In the event of there being more than one preferential Candidate, the examination is competitive. In the event of there being no preferential Candidates, the Bursaries will be thrown open for competition to all Students then intending to enrol in

the University for the First Session of the Curriculum in Arts, the subjects of Examination being as for open Bursaries of the First Year. See Trust Disposition of Founder at p. 335 of CALENDAR for 1873-74, and p. 368 of the CALENDAR for 1877-78. Open in 1914, two Bursaries of £20.

1910, GEORGE H. MACALISTER, THOMAS A. HISLOP, JOHN GOW.

1912, ELIZABETH J. FORREST.

1913, ROBERT G. CAMPEON (*Preferenda*), DOROTHY STEVEN.

HARRISON. (Open June 1915.)

Founded in 1867, by Miss Hannah Harrison of Lasswade. One Bursary: about £26 a year, for 2 years.

The Bursary is open to Students in the *third* year of their course in the Faculty of Arts, with a view to a degree. The examination is in Classics, Mathematics, and Logic and Metaphysics. See Deed of Endowment, p. 231 of CALENDAR for 1867-68.

1911, J. A. M'EWAN.

HERIOT. (Open Sept. 1914 and June 1915, as below.)

Founded in 16—, by George Heriot. (1) High School Bursaries (see below): each £30 a year, for 3 years. (2) Bursaries for men (see below): each £30 a year, for 3 years. (3) Bursaries for women (see below): each £20 a year, for 3 years. (4) One Bursary for a Woman Graduate at St George's Training College, Edinburgh: £30 for one year. Patrons, the Governors of George Heriot's Trust. The subjects of examination for all the above are the same as for Open Bursaries in Arts. For (1), (2), (3), the choice of subjects is as for Open Bursaries. For (4) the subjects are:—English, Latin, Greek, Mathematics, French, German; candidates may select not more than three subjects; and women students who hold the Cambridge University Honour or Ordinary Certificates, which are equivalent to the degrees conferred on men students, and women students who hold the corresponding equivalents to degrees from the University of Oxford, will rank for purposes of competition as Graduates. Under each of (1), (2), (3), three Bursaries, and under (4) one Bursary, may be awarded in September 1914. Schedules of applications may be had from the Clerk of George Heriot's Trust, 20 York Place, Edinburgh, on and after 25th July, to be returned to him not later than 25th August for the September competition, and 20th May for the June 1915 competition.

(1) 1911, RODERICK O. C. MACDONALD, DONALD G. DUFF, WALTER C. S. ANGUS.

1912, HAMILTON A. R. GIBB, LEWIS J. MACIVER.

1913, WILLIAM M. YEATTS, DONALD P. M'IVER, A. M'PHERSON.

(2) 1911, Class A, ROBERT B. KERR, JAMES B. LEASK, DONALD MACPHERSON. Class B, JAMES A. M'EWAN.

1912, Class A, JAMES B. LOCKHART, JAMES N. DANDIE. Class B, E. J. G. BURGOYNE.

1913, THOMAS M. MILLAR, ROBT. B. BENNETT, JOHN S. STEVENSON.

- (3) 1911, Class A, ELIZABETH SHEARER. Class B, JESSIE C. AINSLIE, FLORENCE E. HERRIOT.
 1912, Class A, BARBARA G. CROCKETT. Class B, RODNEY M. A. MURRAY, CECILIA C. ORR.
 1913, AGNES H. BANNERMAN. MARGARET R. GREIG, HELEN I. WILKIE.
- (4) 1912, DORIS M. ARTHUR, M.A.
 1913, MARGARET D. HOWIE, M.A. } equal.
 MARGARET B. MARTIN, M.A. }

HORSLIEHILL-SCOTT. (One Bursary open Sept. 1914, and one in June 1915.)

Founded in 1865, by Sir George Henry Scott Douglas, Baronet, and others. Two Bursaries: each about £42 a year, for 2 years.

The Bursaries are open to Students in the *third* year of their course for a Degree in Arts. The examination is in Classics, Mathematics, and Logic and Metaphysics. Deed of Foundation at p. 208 of CALENDAR for 1866-67.

1912, THOMAS S. SMEATON.
 1913, R. L. LANGLEY.

HOULDSWORTH (for Women). (Open June 1915.)

Founded in 1873, by Miss M. M. Houldsworth. One Bursary of £20 a year for 3 years. Patrons, the Edinburgh Association for the University Education of Women. The Bursary is open to First Year Women Students intending to study for an Arts or Science degree; and the holder must reside at Masson Hall. The subjects of examination are those for First Year Open Bursaries. Apply by letter to Miss A. Hutchison Stirling, M.A., 30 Howard Place, not later than 20th May 1915.

1912, ANNIE M. DONALDSON.

HUME. (Both Bursaries may be open 1915.)

Founded in 1784, by William Hume, Eastbarns, Dunbar. Two Bursaries: each £10 a year (for years of tenure, see below). Patrons, the ministers of the Presbytery of Dunbar.

The Bursaries are tenable at any of the Scottish Universities. The Bursars must first enter the Humanity class: afterwards pass through the rest of the classes in Arts until their Laureation; at which time, if judged by the ministers of the Presbytery of Dunbar fit for the study of Theology, they may continue for two years in Theology.

THOMAS D. MEREDITH.
 1913, WALTER DAVIDSON.

INVERNESS-SHIRE (LONDON) ASSOCIATION.

(Open June 1915.)

Founded in 1903, by the London Inverness-shire Association. One Bursary: £18 a year, for 3 years. Patrons, the Inverness-shire Association.

The Bursary is open, in the first place, to natives of the County of Inverness. The examination is as for First Year Open Bursaries, with Gaelic as one of the subjects. Failing preferential Candidates, the Bursary may, with the consent of the Patrons, be awarded to the Candidate who stands highest in the examination, and has at least obtained 50 per cent. of the available marks in Gaelic. Preferential Candidates to apply to T. L. MacLean, Esq., Hon. Sec., London Inverness-shire Association, 261 Queen's Road, Peckham, London, S.E.

1912, RODERICK D. CAMERON.

JAMIESON. (Open Sept. 1914.)

Founded in 1846, by John Jamieson, Esq., Edinburgh. One Bursary : £26 a year, for 4 years. Patrons, the Principal and two Professors of the University.

The Bursary is for the benefit of the sons of schoolmasters, farmers, mechanics, and labourers, born and residing within any one of the following parishes—viz., Crawfordjohn, Crawford, united parishes of Lamington and Wandell, united parishes of Wiston and Robertson, Culter and Biggar. The Bursar may attend Classes in any of the Faculties. Apply to Messrs Maconochie, Duncan, & Hare, W.S., 10 Hill St., Edinburgh.

JARDINE (BIDDER).

Founded in 1846, by G. P. Bidder, C.E. One Bursary : £42, 12s. 6d. a year, for 4 years.

The Bursary was founded by Mr Bidder, as a memorial of the munificence of Sir Henry Jardine to him, to which he owed the advantage of his education at the University of Edinburgh. Candidates must be natives of Scotland. The recipient must be "of good character, of promising talent, and of known diligence," and must show "that he really requires aid, to enable him with ease to obtain a proper University education." May be open in 1916.

1912, WILLIAM H. MARWICK.

JARDINE OF THORLIESHOPE

(Three Bursaries open Sept. 1914 ; also open June 1915.)

Founded in 1887, by Charles Jardine of Thorlieshope. Eight Bursaries : each about £42 a year, for 4 years.

The Bursaries are open only to natives of the rural districts of Roxburghshire and Dumfriesshire (villages and towns of the population of 2000 and upwards being excluded), who have attended the Public or Board Schools in said counties. In the event of there being no first year Candidates, the Bursaries will be thrown open to Candidates of the second, third, or fourth year in succession, but will be tenable for one year only. The Bursars are required to take the Degree at the end of the Course. The Bursaries cannot be held along with any other Bursary or Scholarship. See Deed of Foundation, p. 497 of CALENDAR, 1887-88.

1911, HUGH C. GRAHAM.

1912, WILLIAM F. DICKSON, THOMAS H. BURLEIGH,

ROBINA A. HENDERSON.

1913, MARY A. M. S. SCOTT.

JOHNSTON (ROBERT).

(No. 1 open Sept. 1914 ; No. 2 open June 1915.)

Founded in 1639, by Dr Robert Johnston of London. Four Bursaries:—(1) Two, each £20 a year, for 4 years; Patron, Hope Johnstone of Annandale. (2) Two, each £12, 4s. 6d. a year, for 4 years; Patrons, the Town Council of Edinburgh.

(1) Apply Messrs Hope, Todd, & Kirk, W.S., 19 Charlotte Square, Edinburgh, agents for the Patron. (2) Apply, between 1st and 20th May, to the Town Clerk, Edinburgh.

(1) 1910, ALEXANDER CAMPBELL, HENRY GRIEVE.

(2) 1911, DUNCAN R. ROSS, JOHN MACKENZIE.

JOHNSTONE (ARCHIBALD). (Open Sept. 1914.)

Founded in 1619, by Archibald Johnstone, Merchant in Edinburgh. One Bursary: £12, 16s. 8d. a year, for 4 years. Patron, the Earl of Haddington.

The Bursary cannot be held along with any other Bursary in the University. Apply to Messrs Lindsay, Jamieson, & Haldane, C.A., 24 St Andrew Square, Edinburgh.

JOHNSTONE OF HARTHOPE. (Open June 1915.)

Founded in 1874, by Johnstone of Harthope. One Bursary: about £19 a year, for 4 years.

Natives of Moffat, Peebles, and Students of the name of Alexander or Johnstone are preferred (proof of eligibility to be produced). The successful candidate must take the Degree of M.A. See Deed of Foundation at p. 350 of CALENDAR for 1875-76. May be open in 1915.

1911, D. L. M. TODD, LIZZIE C. S. BRYDONE.

LAMBERT.

Founded in 1874, by James Lambert. One Bursary: £40 a year, for 4 years.

This Bursary cannot be instituted until after the death of an annuitant. See Deed of Foundation at p. 342 of CALENDAR for 1875-76.

LANARKSHIRE (UPPER WARD OF). (Open Sept. 1914.)

Founded in 1874, by the Edinburgh Upper Ward of Lanarkshire Association. One Bursary: £20 a year, for 4 years. Patrons, the Association. Candidates must be natives of, or resident in, the Upper Ward of Lanarkshire, and must have received a certain portion of their education at an Upper Ward School.

Apply to J. Hamilton Craig, C.A., 98 Hanover Street, Edinburgh.

1909, W. M. DICKSON.

LANFINE. (Two Bursaries open 1915. See below.)

Founded in 1903, by Miss Martha Brown, Lanfine. Four Bursaries: each £40 a year, for 2 years.

The Bursaries, tenable for two years (but not after graduation, unless the Bursar is continuing to study with the approval of the Faculty), are awarded annually, one in each of two Honours Groups, in the following rotation:—1. English. 2. Modern Languages and Literature. 3. History. 4. Economic Science. 5. Classics. 6. Mental Philosophy. 7. Mathematics. Students shall be eligible after the completion of one academic year, or the first Winter Session, but not later than the beginning of the fourth academic year from date of first matriculation. Candidates must have attended two Classes (Ordinary or Honours) within their Honours Group.

The Subjects of Examination are as follows:—

In *English*: The first two papers in English Literature (Honours), i.e., the General Paper and Essay. (Open in June 1917.) In *Modern Languages*: The first two Honours papers in French and in German. (Open in March 1917.) In *History*: Either the two Honours papers in General British History, or the two in Constitutional History. (Open in June 1918.) In *Economic Science*: General questions in the Political Economy papers for the Honours Degree in Economic Science (excluding the questions on the special subjects), and the General paper in Economic History, and the Essay paper in the Economic Science Honours Degree. (Open in June 1915.) In *Classics*: The Honours papers in Composition, and unprepared Translation, and the General papers set for Classical Scholarships. (Open in March 1915.) In *Mental Philosophy*: Two papers in Logic and Metaphysics (or, alternatively, for one of these, a paper in Psychology), and one paper in Moral Philosophy. (Open in June 1916.) In *Mathematics*: The first two Honours papers in Pure Mathematics, and the Honours papers in Analytical Dynamics and Thermodynamics. (Open in June 1916.)

These Bursaries are not tenable along with any other University Bursary or Scholarship. For further information apply to J. J. Herdman, Esq., W.S., 6 Hill Street, Edinburgh.

1913, G. P. SMITH (*Math.*); F. O. STEWART (*English*).

1914, WILLIAM HENDERSON (*Modern Languages*).

J. C. GRIERSON
DONALD MACPHERSON } equal.

Honourable Mention—F. C. HOOD and C. B. M'ALPINE (*History*).

LENNIE. (Two Bursaries open Sept. 1914.)

Founded in 1852, by William Lennie, Esq. Four Bursaries: each £12 a year, for 4 years.

Apply, in July, to the Town Clerk, Edinburgh.

1911, JAMES BRASH.

1913, JOHN J. B. MARTIN.

M'DIARMID. (May be open in 1915.)

Founded in 1858, by the M'Diarmid Trustees, as a memorial of the late John M'Diarmid, Esq., Editor of the *Dumfries and Galloway Courier*. One Bursary : £10 a year, for 3 years.

Candidates must be natives of the County of Dumfries or the Stewartry of Kirkcudbright. Women are not eligible for this Bursary. Apply to Messrs Gordon & Whitelaw, Solicitors, Dumfries.

1912, JOAN B. WILSON.

MACDOUGALL (JOHN and ISABELLA).

(Open 1914. See below.)

Founded in 1883, by Isabella M'Dougall. Four Bursaries : each £25 a year, for 3 years. Patrons, the Trustees.

Candidates must have been born within the county or city of Perth. The Bursaries are open to Students of Edinburgh, Glasgow, and St Andrews Universities. They cannot be held with any Bursary or appointment yielding upwards of £50 per annum. In the case of Edinburgh University, students attending the Gaelic class are preferred. See Deed of Foundation at p. 435 of CALENDAR, 1885-86. Application to be made to Mr W. Cochrane Young, Solicitor, Perth. Two Bursaries are open in 1914.

1912, JOHN J. LOW.

1913, ANDREW J. M. BUTTER.

M'GUFFIE. See **Archibald** or **M'Guffie**.**MACKENZIE (Stornoway).**

Founded in 1888, by Mrs H. E. Morrison (Mackenzie). One Bursary : £22 a year, for 4 years.

Candidates of the name of MacKenzie have a preference. The Bursary will be awarded to the Candidate who stands highest in the competition, provided he has passed the Preliminary Examination in at least two subjects, one of which must be Latin, Greek, or Mathematics on the Higher Standard. Failing a preferential Candidate, the Bursary will be thrown open to competition as a first year Bursary in Arts. The Bursar is required to take the Degree at the end of the course. For Regulations, see CALENDAR for 1895-96, p. 748. May be open in 1916.

1912, THOMAS M'KENZIE.

MACKINNON. (One Bursary open Sept. 1914, and one June 1915.)

Founded in 1883, by the subscribers to the Mackinnon Testimonial. Three Bursaries : each about £21 a year, for 3 years.

These Bursaries were founded to encourage the study of the Mechanical Sciences. Each Bursary is open for competition to Students entering their First Session in the Faculty of Arts. Candidates must be natives of the counties of Argyll, Bute and Arran, Inverness, Ross or Sutherland,

and must be able to speak the Gaelic language. The examination is held at the annual competition for Bursaries at the beginning of each Session, with an additional examination in Gaelic by the Professor of Celtic; at least 10 per cent. of the total marks attainable being assigned to Gaelic. Each Bursar is bound to attend annually at least two classes in the Faculty of Arts during his tenure, and among these classes, at least one class of Mathematics, one of Natural Philosophy, and the class of Engineering. The Bursaries cannot be held along with any other Bursary, Scholarship, or Fellowship in a Scottish University, or with any office yielding an annual income of £50 or upwards, and is tenable only during good behaviour and proficiency.

1912, ALEXANDER ROSS, ALEXANDER MUNRO.

1913, JOHN MACINNES.

MACLAINE (GILLIAN).

Founded in 1878 by Angus MacLaine, Esq., of Fascaidale, Argyllshire, in memory of his brother, Gillian MacLaine, merchant abroad. Two Bursaries: each 50 a year, for £3 years.

The Bursaries, tenable in any Scottish University, are open to Gaelic-speaking young men proposing to study for the ministry of the Church of Scotland. May be open in 1916. For Examination Syllabus, etc., apply to Very Rev. James C. Russell, D.D., 9 Coates Gardens, Edinburgh.

MACLAURIN.

Founded in 1889, by Daniel MacLaurin, London. One Bursary: about £98 a year, for 4 years. Patrons, the Town Council of Edinburgh.

The Bursary is restricted to Students of the Founder's name of MacLaurin (or in Gaelic orthography, "MacIalhrin"). It may be held in any of the Faculties. See Deed of Foundation, p. 544 of CALENDAR for 1890-91. Apply to Town Clerk, Edinburgh. May be open in 1916.

1912, JOHN F. McLAREN.

MAIR (for Women). (Open Sept. 1914.)

Founded in 1887, by Miss S. E. S. Mair and other subscribers. One Bursary of £20 a year, for 3 years. Patrons, the Edinburgh Association for the University Education of Women.

The Bursary is open to First Year Women Students intending to study for an Arts or Science degree; and the holder must reside at Masson Hall. The subjects of Examination are those for First Year Open Bursaries. Apply by letter to Miss A. Hutchison Stirling, M.A., 30 Howard Place, not later than 13th August.

1911, ROSENA GUNN.

MANN. (One Bursary open Sept. 1914, and one June 1915.)

Founded in 1886, by Peter C. Mann, of Nairn and Durham. Three Bursaries: each about £30 a year, for 3 years.

Candidates must be children of residents in the town of Nairn, viz., one

or both parents must have resided within the municipal boundaries for at least twelve months, at any period prior to the competition. One Bursary will be awarded annually. The award will be to a candidate matriculating for the first time in this University; or, failing candidates of the first year, as a second year Bursary to the candidate who obtains the highest marks in the Bursary Examination for the second year; or, failing candidates of the first and second years, it will similarly be awarded as a third year Bursary. When awarded to a second or third year student, it is tenable for one year only. Failing candidates qualified under any of these rules, the Senatus may continue one of the Bursaries to its holder for a fourth year, provided he propose to continue his studies for a fourth year in some special subject. Each Bursar must be *bonâ fide* engaged in studying for a Degree in Arts or in Science. See Deed of Foundation, p. 497 of CALENDAR, 1887-88, and Regulations at p. 544 of CALENDAR for 1890-91.

1911, JOHN M. LAING.

1912, HAROLD JAMIESON.

1913, FLORA B. CAMPBELL.

MARSHALL.

Founded in 1875, by Robert Marshall. One Bursary: about £39 a year, for 4 years.

The Bursary is open in the first place to relatives of Founder; whom failing, in the second place to Students of the name of Marshall; and in the third place to natives of West Lothian. See Deed of Foundation at p. 347 of CALENDAR for 1876-77. May be open in 1916.

1912, ANDREW M. SPIERS.

MASTERTON MEMORIAL.

Founded in 1901, by the United Free Church (Masterton Memorial). One Bursary: £30 a year, for three years. Patrons, the Society for Sons and Daughters of Ministers of the United Free Church of Scotland.

The Bursary is for the benefit of sons and daughters of ministers and missionaries of the United Free Church. Candidates, who must have within three previous years received grants from the above Society, may take the Bursary Examination in four, but not more than four, subjects, one of which must be either French or German. The Bursary will not be awarded to any Candidate who has not passed the Preliminary Examination (including either Latin or Greek on the Higher Standard, and either French or German) with a view to Graduation. For further information apply to Mr W. G. C. Hanna, C.A., 4 Melville Street, Edinburgh.

1913, JAMES H. B. BELL.

MAULE.

Founded in 1890, by the Rev. Thomas Maule. Four Bursaries: each £21, 2s. a year, for 6 years. Patrons, the Principal of the University, and the Professors of Humanity and Greek.

These Bursaries are for the education of poor and deserving Students. They may be held by Students prosecuting their studies in any of the Faculties. The successful candidate will be required to produce a

certificate regarding his circumstances and character from some person of standing to whom he is known. See Excerpt from Trust Deed, p. 543 of CALENDAR for 1891-92, and Deed of Foundation, in CALENDAR for 1894-95. May be open in 1916.

1910, DONALD DAVIDSON, JAMES H. WILSON.

1911, ROBERT T. ADAMSON.

1912, THOMAS MILNE.

MENZIES. (Open 1914 and 1915.)

Founded in 1837, by James Menzies, Esq., Glasgow. Four Bursaries : £45 a year (see below), for 4 years. Patrons (*pro tem.*), the ministers of Dull, Weem, and Forthingall.

The Bursaries vary in value at the discretion of the patrons, and are tenable in any one of the Universities of St Andrews, Glasgow, or Edinburgh. Preference is given first to the relations of the Founder; next, to the name of Menzies; failing whom to persons born on the estates of Menzies, within the parishes of Dull, Weem, and Forthingall; failing whom, any Student who shall be found best qualified may be appointed. Candidates must pass the Preliminary Examination. One Bursary is open each year. Apply to A. J. Rintoul, Clerk to Bursary Trust, Camserney Cottage, Aberfeldy.

1911, J. B. LEASK.

MILLAR. (May be open in 1915.)

Founded in 1784, by the Rev James Millar and Spouse. One Bursary : £23. 14s. a year, for 4 years. Patrons, the Kirk-Session of Kippen.

The Bursary is to be held by a Student intended for the ministry in the Church of Scotland, during his Curriculum in the Faculty of Arts.

ALAN M. DAVIDSON.

MITCHELL AND SHORTT. (Open Sept. 1914.)

Founded in 1723, by Alexander Mitchell and James Shortt. One Bursary : about £28 a year, for 4 years. Patrons, Livingston Learmonth of Parkhall, and his heirs; the Earl of Morton, and his heirs.

The Bursary is awarded in Open Competition. Apply to Clerk of Senatus.

1910, ROBERT ROBERTSON.

MORAYSHIRE CLUB. (Open June 1915.)

Founded in 1912, by the Edinburgh Morayshire Club. One Bursary : £20 a year, for 3 years (but the period may be extended). Patrons, the Club.

The Bursary is open to students entering on a graduation curriculum in Arts, Science, or Medicine. Candidates must be deserving children, natives of the County of Moray, and must have attended a school or schools within the county for at least five years immediately prior to the date of competition. Apply to A. S. Calder, 17 Hill Street, Edinburgh.

1912, JAMES M. MACIVER.

NAIRN. (Open Sept. 1914 and June 1915.)

Founded in 1903, by Mr (now Sir) Michael B. Nairn. Four Bursaries : each £25 a year, for 4 years. Patrons, the School Board of Kirkcaldy and Dysart.

The Bursaries are to be competed for by pupils who have been in attendance at Kirkcaldy High School for the two years immediately preceding the date of the examination; and they are tenable for four years at any Scotch, English, or Foreign University, or any Technical College. One Bursary is offered for competition each year; and it is awarded on the results of the Edinburgh University Entrance Examination, at which all candidates for the Bursary must appear.

1910, HELEN R. BURNS.

1911, FREDERICK C. GRAY.

1912, ELIZABETH J. BOAG.

1913, MARGARET M. M'CREA.

NAIRN (TOWN OF). See **Mann.****NEWTON.** (Open June 1915.)

Founded in 1886, by Robert C. Newton of Castlandhill. Four Bursaries : each about £23 a year, for 2 years.

Two Bursaries are awarded annually, one to the most distinguished Student in the Class of Natural Philosophy, and one to the most distinguished Student in the Second Ordinary Class of Mathematics. The Bursaries are tenable for two years, and the Bursars must continue their studies in the higher branches of the subjects of their Bursaries, and, at the end of the second year of tenure, either take Honours in Mathematics and Natural Philosophy, pass the 2nd B.Sc. Examination, or give other evidence of advanced study in Mathematics or Natural Philosophy. The Bursar is required, during his tenure of the Bursary, unless specially dispensed for reasons approved by the Senatus, to act as a student demonstrator in one of the classes of Natural Philosophy or Mathematics respectively, for not more than two hours per week during not more than twenty weeks of one academic year. See Deed of Foundation, p. 460 of CALENDAR, 1886-87.

1913, JOHN MACKENZIE (*Math.*); GEORGE CALDER (*Nat. Phil.*).

1914, J. J. LOW (*Math.*); THOMAS MACKENZIE (*Nat. Phil.*)

ORKNEY AND ZETLAND. (Open June 1915.)

Founded in 1873, by the Earl of Zetland. One Bursary : £40 a year, for 3 years. Patrons, the Trustees of the Earl of Zetland.

The Bursary is open to first year Students (male or female), natives of the Islands or County of Orkney and Zetland, or children of parents one or both of whom have been born in, or connected for a long period of years with, the said islands or county. Applications to be sent to Messrs Dundas & Wilson, C.S., 16 St Andrew Square, Edinburgh. The Deed of Foundation will be found in CALENDAR for 1873-74, p. 329.

1912, ROBERT CROMARTY.

See also **ZETLAND (MARQUIS OF)**, p. 287.

PATRICK. (One Bursary open Sept. 1914.)

Founded in 1860, by William Patrick, Esq., of Roughwood. Three Bursaries: each about £45 a year, for 4 years. Patrons, the Principal and the Professors in Arts.

The Bursaries are for the assistance of those who have completed a course of education at any of the public schools or academies in the County of Ayr where a course of Classical Study is pursued. The rectors or head teachers of each of said schools or academies may grant a certificate or letter to any number, not exceeding four, of the best scholars who have completed their course of education at such school or academy, and are in a position to enable them to apply for admission to the University; and the parties holding such letters or certificates are entitled to present themselves for examination as candidates for the Bursaries. Failing qualified candidates, the Senatus may award by open competition. See p. 197 of **CALENDAR** for 1865-66.

1910, J. CASSELS.

1912, DOUGLAS E. CALVER.

1913, A. B. WILLIAMSON.

PATTERSON. (Open June 1915.)

Founded in 1880, by the Rev. John Patterson. One Bursary: about £15 a year, for 2 years.

This Bursary, in Anglo-Saxon Grammar and Literature, is open to Students in the *second, third, or fourth* year of their Matriculation, who have attended the class of Rhetoric and English Literature. The holder must produce a Certificate of Attendance on the Honours Course in English Language in the first Session after his appointment. The examination will include Anglo-Saxon Grammar, Translation of passages of Anglo-Saxon prose and verse, and the History of Anglo-Saxon Literature. See Deed of Foundation at p. 379 of **CALENDAR** for 1880-81.

1913, C. K. SCOTT-MONCRIEFF.

PEEBLESSHIRE.

Founded in 1863, by the Peebles-hire Society. One Bursary: £20 a year, for 4 years. Patrons, the Society.

The Bursary is open to Candidates of either sex who intend to pursue the curriculum in Art, Science, or Medicine. Apply to the Secretary of the Society, P. H. Cosens, Esq., W.S., 26 Frederick Street, Edinburgh. May be open in 1916.

1912, EVELYN M. BARRONS.

PENMAN. (Open July 1914.)

Founded in 1678, by John Penman, Bailie and Merchant, Edinburgh. One Bursary: about £18, 10s. a year, for 4 years. Patrons, the Society for the Benefit of the Sons of the Clergy.

The Bursar must attend the Classes in the Art- Curriculum. Apply to John A. Trail, W.S., 28 Rutland Square.

DONALD DAVIDSON.

PRINGLE AND WARDROP. (Open June 1915.)

Founded in 1703 and 1725, by James Pringle of Torwoodlee, and William Wardrop, Litster, Edinburgh, respectively. One Bursary: £19, 14s. a year, for 4 years. Patrons, Pringle of Torwoodlee, and J. C. Wardrop, W.S., alternately.

The Bursary is awarded in Open Competition. Apply to the Clerk of Senatus.

1911, RAYMOND L. LANGLEY.

RAMSAY (Sir A.). (Open June 1915.)

Founded in 1687, by Sir Andrew Ramsay of Abbotshall. One Bursary: £10, 17s. 6d. a year, for 4 years. Patrons, the Town Council and Ministers of Edinburgh.

The Bursary may not be held along with any other Bursary, Fellowship, or Scholarship of any Scottish University. Apply, between 1st and 20th May, to the Town Clerk, Edinburgh.

1911, WM. HARROWER.

RENTON. (Open September 1914 and June 1915.)

Founded in 1883, by William Renton, Edinburgh. One Bursary: £19, 11s., for 1 year. Patrons, the Professors of Mathematics, Natural Philosophy, Chemistry, and Political Economy.

The Bursary, which is open annually, is not restricted to Students of the first year. The holder must attend one or more of the classes of Natural Philosophy, Mathematics, Chemistry, or Political Economy. Pecuniary circumstances will be taken into consideration. It cannot be held by anyone under the age of sixteen or above twenty-one, or with another Bursary of the annual value of £30 or upwards. The examination is in English and Mathematics, as for the First Year Open Bursaries.

1913, BERTRAM T. FRASER.

RHIND.

Founded in 1864, by A. H. Rhind of Sibster. One Bursary: £15 a year, for 4 years. Patrons, the Edinburgh Caithness Association.

The Bursary, which is tenable in any Scottish University, will be open in 1916. Apply to the Secretary of the Association. William Gunn, S.S.C., 15 Queen Street.

ST GEORGE'S TRAINING COLLEGE. See **Appendix.**

SCOTT (Sir WALTER). See **Border Counties.**

SIBBALD. (Open September 1914 and June 1915.)

Founded in 1871, by Dr J. Robertson Sibbald. Five Bursaries: each £30 a year, for 3 years. Patrons, the Trustees of Dr Sibbald.

The Bursaries are tenable by Students in the Faculties of Arts, Medicine, Law, or Divinity, and are open to Students entering the University who have not previously attended any University in the United Kingdom or elsewhere, and who do not hold any other Bursary or Scholarship; but it will be no objection to a Candidate that he has, during the previous Summer Session, attended any of the Classes in the University of Edinburgh required by the Faculties of Medicine or Law. See **CALENDAR** for 1888-89, pp. 171 and 177. Application to be made to Messrs Mackenzie, Innes, & Logan, W.S., 25 Melville Street, Edinburgh, not later than 1st September.

1911, LAURANCE J. SAUNDERS, ROBERT H. M. WEDDERBURN.

1912, DOUGLAS A. MILLER, ROBERT MILLAR.

1913, WILLIAM COOPER.

SIMSON (Dunbar).

Founded in 1869, by James Simson. One Bursary: £21 a year, for 3 years. Patrons, the Minister and Kirk-Session of Dunbar.

The Bursary is tenable at any of the Scottish Universities. The Bursar must be a native of Dunbar, attending College in the prospect of becoming a minister of the Established Church of Scotland, or going abroad as a missionary. It may be continued for a period not exceeding three years. Candidates to apply to the Session Clerk, Dunbar Parish Church.

SIMSON (Edinburgh). (Open 1914 and 1915.)

Founded in 1889, by James Simson, Edinburgh. Twelve Bursaries: each £25 a year, for 3 years. Patrons, the Presbytery of Edinburgh.

The Bursaries are open to Students who, having passed the Preliminary Examination, are entering on the first year of the Course in Arts, and are studying for the Ministry of the Church of Scotland. For conditions of tenure and subjects of examination, apply to the Rev. William Main, 11 Fountainhall Road, Clerk to the Presbytery of Edinburgh.

SPENCE. (Open 1914 and 1915.)

Founded in 1867, by the Rev. John Spence. Four Bursaries (values, etc., stated below). Patrons, the Governors of the Spence Bursary Trust.

By the regulations of the Governors, two Bursaries, each of the annual value of £30 for the first year and £40 for the second year of tenure, are

open annually to Students of either sex who, after passing the preliminary examination, or such other examination as may from time to time be accepted by the Joint Board of Examiners as equivalent thereto, have attended one Winter Session or its equivalent in the Faculty of Arts in the University of Edinburgh, and have attended at least two classes qualifying for Graduation, and who intend to complete the course of study for the degree of Master of Arts at the University. The Governors may award to any Bursar, if they are satisfied of his or her merit, a continuation Bursary of an annual value of £50, tenable for one year, on condition that the Bursar shall for that year attend such a curriculum of study in any of the Faculties as the Governors may approve. Subjects of Examination are Latin, Greek, and Mathematics. Candidates apply to Henry A. Pattullo, Solicitor, 1 Bank Street, Dundee, Factor to the Trust, for particulars; and applications must be lodged with him before 1st September. Candidates will be examined, in the latter half of that month, by an Examiner appointed by the Governors.

1911, JOHN E. DE WATTEVILLE.

LEONARD C. PATON.

1912, JOHN C. MACIVER.

W. A. M. FERGUSON.

1913, DAVID BROWN.

STEWART (JAMES). (Open June 1915.)

Founded in 1899, by James Stewart, Duart. One Bursary: £32 a year, for 3 years. Patrons, the Kirk-Sessions of Callander and Trossachs.

The Bursary is open to natives of the parishes of Callander or Trossachs, studying in any Scottish University with a view to taking the Degree of M.A.

STRANG STEEL. (Open Sept. 1914 and June 1915.)

Founded in 1912, by the Edinburgh Border Counties Association. Four Bursaries: each £30 a year, for 4 years. Patrons, the Association.

The Bursaries are for Students entering upon a regular curriculum, with a view to graduation in any of the Faculties in any of the Universities of Scotland. One Bursary is open annually for competition to Students born in, or for the two years prior to 31st May in the year of examination resident in, the Parishes of Yarrow, Etrick, Kirkhope, Ashkirk, Selkirk, Heatherlie, Caddonfoot, or Teviothead. Failing a suitable Candidate from any of these parishes, the Bursaries shall be open for competition to Students born or resident as aforesaid in any of the other parishes in the Counties of Selkirk and Roxburgh. Subjects: English, and two others selected by the Candidate. Apply to S. D. Elliott, S.S.C., 40 Princes Street, Edinburgh.

1912, ELIZABETH M. G. PIRIE.

1913, ANNIE M. STEWART.

STUART. (Both Bursaries open Sept. 1914.)

Founded in 1810, by the Rev. James Stuart. Two Bursaries: each £19, 11s. a year, for 3 years,

The Bursaries are open to Students entering upon the *second year* of their course for graduation in Arts or in Pure Science. They are tenable for three years, provided that if the holders graduate at the end of their second year of tenure they shall only retain their Bursaries for a third year if they engage in a course of study approved by the Senatus Academicus in subjects included in the Curriculum for Degrees in Arts or in Pure Science.

1910, C. F. CRICHTON.

THOMSON. (Open Sept. 1914 and June 1915.)

Founded in 1878, by Dr Andrew Thomson. Three Bursaries: each £25 a year, for 4 years. Patrons, the Trustees of Dr Thomson.

Candidates of the name of Thomson or Traquair, or natives of Town or County of Dumfries or City of Edinburgh, are preferred. See Deed of Foundation, p. 367 of CALENDAR, 1877-78, and Scheme of Allocation, p. 346 of CALENDAR, 1879-80. Applications to be made to Messrs Traquair, Dickson, & MacLaren, W.S., 11 Hill Street, not later than 1st September.

1910, JOHN W. THOMSON.

1911, ALEXANDER DOUGAL.

TROTTER AND PENMAN. (Open June 1915.)

Founded in 1622, 1764, and 1766, by John Trotter of Mortonhall, and Rev. J. Penman of Bothkennar. One Bursary: £12, 15s. a year, for 4 years. Patrons, Trotter of Mortonhall, and Gilmour of Craigmillar, alternately.

This Bursary cannot be held along with any other Bursary in the University.

1911, JOSEPH HALLIDAY.

VICTORIA JUBILEE (for Women). (Open 1915. See below.)

Founded in 1887 by His Excellency Dr Gunning. One Bursary of £30 for 1 year. Patrons, the Edinburgh Association for the University Education of Women.

The Bursary is open to Women Students entering on their fourth session, who desire to graduate in Arts (Honours) or Science; and the holder must reside at Masson Hall. It is awarded, without examination, to the candidate who, in the opinion of the Executive Committee, best fulfils the conditions of the Trust. Open October 1915. Apply by letter to Miss A. Hutchison Stirling, M.A., 30 Howard Place, Edinburgh, before 15th February.

1913, MAY L. WALKER.

WEIR, JENKINS, HEPBURN, AND LIGHTBODY.

Founded in 1642, 1653, 1696, by Weir, Jenkins, Hepburn, and Lightbody. One Bursary: £11, 2s. 8d. a year, for 4 years. Patrons, the Town Council of Edinburgh (1st and 2nd Presentations), Campbell of Aberuchill (3rd Presentation).

Apply, in July, to the Town Clerk, Edinburgh. May be open in 1917.

1913, D. G. A. STEWART.

WELSH (JOHN).

(Open Sept. 1914 and June 1915. See below.)

Founded in 1881, by Thomas Carlyle. Eight Bursaries: each £20 a year, for 4 years.

The Bursaries, founded by Thomas Carlyle, in memory of his Father-in-law, to whom the estate of Craigenputtock in Dumfriesshire, bequeathed by Mr Carlyle to the University of Edinburgh, formerly belonged, are paid from the rents of that estate. They are awarded to Students entering the University who have not studied in any other University. Four are to be given to the competitors most proficient in Mathematics, and four to those most proficient in Classics. For the former, the subject of examination is Mathematics, especially Pure Geometry (Euclidean Geometry, Modern Pure Geometry, Elementary Solid Geometry, and Conic Sections treated geometrically). What will be looked for is, not so much exhaustive knowledge of all the more intricate theorems, as a thorough knowledge of such as are more elementary and fundamental in their character, and ability to apply these in fairly straightforward exercises. For the latter, the subjects of examinations are Latin, Greek, and English. They are not to be held with any other Bursary. See Deed of Foundation at p. 379 of CALENDAR for 1881-82. A Classical Bursary and a Mathematical Bursary may be awarded annually.

1911, JAMES I. MILLER	} Classical.
1912, JOHN PENMAN	
1913, DAVID MILNE	

1911, THOMAS A. BROWN, CATHERINE B. MILLS	} Mathematical.
1912, JAMES H. WADDELL	
1913, PHILIP S. SMITH	

WHITELAW. (One Bursary open Sept. 1914.)

Founded in 1882, by James Whitelaw. Three Bursaries: each about £26 a year, for 3 years.

The Bursaries are open to Students about to enter, or who follow the Curriculum in Arts; and they cannot be held along with any other Bursary, Scholarship, or Fellowship in a Scottish University, or with any office yielding £50 annually, or upwards.

1912, JOHN J. LOW.

1913, JAMES FARQUHAR, A. W. BANNERMAN.

WIGHT, M'CALL, AND CHRISTIE. (Open June 1915.)

Founded in 1626, 1629, 1640, 1726, by Hugh Wight, David M'Call, and David Christie. One Bursary: £12, 15s. 4d. a year, for 4 years. Patrons, the Town Council of Edinburgh.

This Bursary cannot be held along with any other Bursary in the University. Apply, between 1st and 20th May, to the Town Clerk, Edinburgh.

1911, A. M. DAVIDSON.

ZETLAND (MARQUIS OF).

(Open Sept. 1914 and June 1915.)

Founded in 1877, by the Earl of Zetland. Three Bursaries: each about £40 a year, for 3 years. Patrons, the Trustees.

These Bursaries are open to First Year Students (male or female) in the Faculty of Arts, who are natives of the Islands or County of Orkney and Zetland, or children of parents, one or both of whom shall have been born in, or connected for a long period of years with, the said Islands or County. Candidates must either have been wholly educated in the Islands, or, at least, they must not have received any education elsewhere within four years. For Deed of Foundation of these Bursaries, see p. 373 of CALENDAR for 1877-78. One Bursary is open annually. Application to be made to Messrs Dundas & Wilson, C.S., 16 St Andrew Square, Edinburgh, not later than 17th August.

1911, ROBINA GUNN.

1912, ANNIE M. DONALDSON.

1913, WILLIAM T. EUNSON.

ZETLAND (for Women).

Founded in 1883, by the Earl of Zetland. One Bursary of £20 a year, for 3 years. Patrons, the Edinburgh Association for the University Education of Women.

The Bursary is open to First Year Women Students intending to study for an Arts or Science degree; and the holder must reside at Masson Hall. The subjects of examination are those for First Year Open Bursaries. Open in 1916.

1913, JESSICA M. PATERSON.

III. Prizes, etc.

(ARRANGED ALPHABETICALLY.)

Note.—The values are stated *approximately*.

BLACKIE CELTIC PRIZE. (Open October 1914.)

This Prize of about £60, for promoting the study of the Celtic Language and Literature, is open triennially in October to Matriculated

Students of the University, and to Graduates of any Scottish University, under the age of 30 and within six years of the date of their graduation. The examination is in the Gaelic Language and Literature, and, if the examiners think fit, also in any other branch of the Celtic language. The Prize will be open in October 1914. *See* Regulations at p. 828 of CALENDAR for 1900-1901.

1911, JOHN A. MACKENZIE, M.A.

BRUCE OF GRANGEHILL AND FALKLAND'S PRIZE IN THE CLASSES OF LOGIC AND METAPHYSICS. (Open June 1915.)

This Prize of £20 (with a supplementary Prize of £10 for the Junior Division of the Class) is awarded annually to the most distinguished student in this class, "on such conditions and competition as the Professor may direct, and on his decision," for excellence in the study of Logic and Metaphysics. It was founded in 1865, by Mrs Tyndall Bruce of Grangehill and Falkland, in commemoration of John Bruce, Professor of Logic and Metaphysics in the University, 1774-86.

1914, WILLIAM MURRAY.

BUTCHER MEMORIAL PRIZE IN GREEK. (Open June 1915.)

This Prize, of about £5, the proceeds of a sum gifted by an anonymous donor, is awarded annually to the best student in the Ordinary Greek Class.

1914, JAMES FARQUHAR.

COUSIN PRIZE. (Open June 1915.)

This Prize, founded in connection with the Class of Fine Art by the late David Cousin, Esq., is of the annual value of about £15, and is awarded at the close of each session for proficiency in Class Essays set from time to time by the Professor. *See* Excerpt from Mr Cousin's will in CALENDAR, 1880-81, p. 380.

1914, HARRIET J. COGIE.

CRUM BROWN MEDAL. (Open June 1915.)

The contributors to the Crum Brown Portrait Presentation Fund handed over the surplus of the fund to the University Court for the purpose of awarding annually a silver medal in the Chemistry department. The medal is given to the most distinguished student in the Elementary Arts and Science Class.

1914, WILLIAM M. AMES.

GEOGRAPHICAL (ROYAL SCOTTISH) SOCIETY MEDAL.

(Open June 1915.)

The Scottish Geographical Society offers a silver medal annually for competition among those who have attended the ordinary class of Geography. The medal is awarded for an Essay. Essays to be lodged with the Lecturer in Geography, at a date in October to be fixed by the Lecturer. For further particulars, see notice boards.

1912, LAURANCE J. SAUNDERS.

GLADSTONE MEMORIAL PRIZE IN HISTORY, POLITICAL SCIENCE, AND ECONOMICS. (Open July 1915.)

This Prize, of the value of £5 in books, is awarded annually to the student who, in the opinion of the Professors of History, the Professor of Political Economy, and the Professor of Public Law, has obtained the highest distinction within the two preceding years in any two of these subjects. A student to whom the Prize has been awarded will not be re-eligible. Applications, with the necessary Certificates, to be lodged with the Clerk of Senatus not later than 20th June.

1914, J. B. TAYLOR, M.A.

GRAY PRIZES. (Open Sept. 1914.)

The Gray Prize Essay Fund was instituted in 1851, in terms of the Will of Simon Gray, Esq., of Mornington Crescent, London. Subject for 1914, "The Influence of the Ancient Alliance between Scotland and France on Scottish Literature and Art." For further particulars, see notice boards, or apply to W. Home Waite, Esq., Duns, Secretary to the Trustees.

ELIZABETH HAMILTON PRIZE. (Open June 1915.)

This Prize of £5 is offered, in alternate years, to the best Woman Student in the Ordinary Classes of Logic and Moral Philosophy, provided that her standing be not below that of the First Class Certificate. In 1915 the Prize will be open in Logic.

1914, EDITH M. BEVERIDGE, M.A. (*Moral Philos.*).**KELLAND MEMORIAL PRIZE.** (Open Sept. 1914.)

The Committee for promoting a Memorial to the late Professor Kelland handed over to the University the sum of £147, 10s., for the purpose of founding a Prize to be called the "Kelland Memorial Prize," awarded annually in September. The Examination is on Higher Geometry. The Prize is of the value of about £4, 11s. Students who made a complete attendance on the ordinary Mathematics Class for the first time in the previous year, or who have completed an ordinary Graduation second half-course in Mathematics, the first half of which was taken not earlier than the second summer before the date of the Examination, will alone be eligible to compete for the Prize.

1913, JAMES B. LOCKHART.

LORD RECTOR'S PRIZE.

The Lord Rectors since 1879, during their respective tenures of office, have offered a Prize of Twenty-five Guineas annually, for the best Essay on a Historical Subject.

[*Note*.—Owing to the death of the Lord Rector, there will be no competition this year.]

1914, ARTHUR BIRNIE, M.A. ; C. W. GRAY : divided.

SCOTT AND DUNBAR PRIZE. (Open June 1915.)

This Prize, of the value of £15, was founded in 1872 by the Rev. Hew Scott, D.D., of Anstruther Wester, for encouraging the study of the Greek Language in the University of Edinburgh. It is awarded annually to "the most deserving and learned student in the Greek Classes," after such Examination as may be directed by the Principal and the Professors of Divinity, Greek, and Humanity. *See* Deed of Foundation at p. 332 of CALENDAR, 1873-74.

1914, R. B. KERR.

BURSARY EXAMINATIONS, ETC., AND GENERAL CONDITIONS OF CANDIDATURE FOR, AND TENURE OF, BURSARIES.

Candidates for Open (Non-preferential) Bursaries in general do not require to specify any of the Bursaries in the List. It should, however, be noted that in several cases separate entry has to be made with agents and others, outside of the University.

Bursaries are awarded on the results of the University Bursary Examinations, unless it is otherwise stated; and they are tenable at the University of Edinburgh only. The Senatus reserve the power, under Section XIII. of Ordinance No. 57, as amended by Ordinance No. 9 of Edinburgh University Court, to award First Year Bursaries in Arts in respect of exceptional distinction in any one branch of study.

For Bursary and other purposes, where the phrase "First Year's Student in Arts or Pure Science" is not by Deed of Foundation or otherwise defined, it shall mean "A Student in Arts or Pure Science who has not attended any class qualifying for Graduation in the said Faculties in any Scottish University."

A. REGULATIONS FOR SEPTEMBER 1914.

Candidates for First, Second, and Third Year Bursaries must enter their names at the Matriculation Office, University (Old) Buildings, between 1st and 4th September.¹ Entry forms may be had on application.

First Year Bursary Examination.

1. The subjects of examination are :—

- | | |
|-----------------|---------------------------|
| 1. Latin. | 6. English. |
| 2. Greek. | 7. History and Geography. |
| 3. Mathematics. | 8. Italian. |
| 4. French. | 9. Spanish. |
| 5. German. | 10. Celtic. |

2. The full marks for each subject are 100.

3. Every candidate may take up four different subjects, but must select at least two from the following list of four alternatives :—

- | | |
|-----------|----------------------|
| 1. Latin | 3. Mathematics. |
| 2. Greek. | 4. French or German. |

4. The papers for each subject are the papers on the higher standard set for the Preliminary Examination in Arts, together with an additional paper. The apportionment of the full marks between these two papers is left to the University Examiners in each subject.

¹ The Senatus may relax this Regulation in cases where *very special cause* has been shown.

It is to be understood that in the additional paper in Mathematics questions on Elementary Applied Mathematics are set.

Candidates who offer History and Geography are required to do two papers of three hours each. Neither of these papers is a paper set for the Preliminary Examination in Arts. The subject of the two papers is :—

1. General British History, together with the History of Europe, so far as it is necessary for understanding British History.

2. Geography. Two-thirds of the questions in this paper will be on General Geography, including the elements of Physical Geography, and one-third on Geography as illustrating British History and the Growth of the British Empire. The elements of Physical Geography will be interpreted to include the analysis and interpretation of Ordnance Survey Maps, as well as general principles governing the distribution of plant and animal life on the globe.

Second Year Bursary Examination.

The subjects of examination are Latin, Greek, and Mathematics.

The following subjects are prescribed for the examination in Latin and Greek :—*Latin*—Virgil, *Aen.* viii. ; Livy, xxxvii., xxxviii. *Greek*—Euripides, *Hippolytus* ; Thucydides I. Latin and Greek prose composition, and translation from books not prescribed.

Third Year Bursary Examination.

The subjects of examination are Classics, Mathematics, and Logic (including Philosophical Introduction).

The following subjects are prescribed for the examination in Classics :—*Latin*—Virgil, *Aen.* viii. ; Seneca, *Letters* (Summers' Selection). *Greek*—Euripides, *Hippolytus* ; Thucydides I. Latin and Greek prose composition, and translation from books not prescribed.

No special books are prescribed for Mathematics or for Logic. Candidates should revise the lectures and textbooks in these classes.

The TIME-TABLE OF EXAMINATIONS is given on page 293.

B. REGULATIONS FOR 1915.

(Candidates must enter their names between 14th and 17th June.¹)

First Year Bursary Examination.

1. The subjects of examination are :—

- | | |
|-----------------------------|----------------------------------|
| 1. Latin. | 7. History (see below). |
| 2. Greek. | 8. Italian. |
| 3. Mathematics (see below). | 9. Spanish. |
| 4. French. | 10. Celtic. |
| 5. German. | 11. Natural Science (see below). |
| 6. English. ² | |

¹ The Senatus may relax this Regulation in cases where *very special cause* has been shown.

² The papers in English will not include questions on British History and Geography.

2. The full marks for each subject are 100.

3. Every candidate may take up four different subjects, but must select at least two from the following list of four alternatives :—

- | | |
|-----------|----------------------|
| 1. Latin. | 3. Mathematics. |
| 2. Greek. | 4. French or German. |

4. In each subject there shall be two papers, of not more than three hours each.

In Mathematics, the subjects of examination are:—Elementary Geometry (the substance of Euclid, Books I-IV., and VI.; any proof which appears to form part of a systematic treatment of the subject will be accepted); Algebra; Trigonometry; Elementary Analytical Geometry. Candidates for the John Welsh Bursary in Mathematics will have a paper on Pure Geometry, in addition to the two Bursary papers in Mathematics.

In History, one paper will be in General British History; and the second paper will be on the outlines of European History, including Ancient, Mediæval, and Modern History. In both papers, questions on historical geography will be included.

Candidates who offer Natural Science are required to produce evidence of their having undergone a practical course in their subject.

In Natural Science, there will be five papers, viz.: (1) Natural Philosophy I. (Dynamics, Heat and the General Properties of Matter); (2) Natural Philosophy II. (Electricity, Light, and Sound); (3) Chemistry; (4) Botany; (5) Geography. Candidates may offer any two of the above papers.

In Geography, two-thirds of the paper will be on General Geography interpreted as the study of the influences, especially on man, of local conditions and place relations, and thus including (*a*) such elementary science as is necessary to the understanding of those influences, more particularly as they depend on climate, and (*b*) a knowledge of maps, as the necessary means of expressing place relations. One-third of the questions will be on the geography of the British Empire.

TIME-TABLE FOR BURSARY EXAMINATIONS.

1915.

- June 22. Tues. Latin, 10-12, 1-3; Greek, 4-6.
 „ 23. Wed. Greek, 10-12; French, 1-3, 4-6.
 „ 24. Thur. German, 10-12, 1-3; English, 4-6.
 „ 25. Fri. English, 10-12; Italian, Spanish, Celtic, 1-3, 4-6.
 „ 26. Sat. History, 10-1, 2-5.
 „ 28. Mon. Mathematics, 10-12.30, 2-4.30.
 „ 29. Tues. Natural Philosophy I., 10-1; Natural Philosophy II., 2-5;
 Anglo-Saxon for Patterson Bursary, 9-12, 3-6.
 „ 30. Wed. Geometry for Welsh Bursary and Kelland Prize, 10-1;
 Chemistry, 2-5.
 July 1. Thur. Botany, 10-1; Geography, 2-5.
 „ 12. Mon. Meeting of Candidates with Dean, for Allocation of
 Bursaries, at 2 o'clock.

Second Year Bursary Examination.

The subjects of examination are Latin, Greek, and Mathematics. The papers will be those set for the Ordinary M.A. Degree.¹

Third Year Bursary Examination.

The subjects of examination are Classics, Mathematics, and Logic (including Philosophical Introduction).

The papers will be those set for the Ordinary M.A. Degree.¹

Candidates for *Preferential or Restricted* Bursaries in the gift of private patrons must, if they do not hold exempting certificates, pass the Preliminary Examination in Arts prescribed by the Regulations for Degrees in Arts, Section III., and no Bursary shall, except as hereinafter provided, be awarded to any candidate who shall not have passed the Preliminary Examination in Arts, or its equivalent. But it is in the power of the Senatus, with the approval of the University Court, to admit to a Bursary in Arts not awarded to open competition a candidate who shall have passed in at least one subject of the Preliminary Examination, on the condition that he shall not retain the Bursary unless he shall have passed in all the subjects not later than the Secondary Preliminary Examination after the date of his admission as Bursar. When more than one candidate enters for a Preferential Bursary, the examination will be competitive, as for First Year Bursaries.

County Clubs, and others, may, by arranging with the University Court, avail themselves of the University Examinations. Those who desire to have their Bursaries inserted in the CALENDAR, under the head of Bursaries open during the year, are requested to give intimation to the Editor of the CALENDAR before 1st March.

Candidates for Bursaries, unless also candidates for the Preliminary Examination, pay no fee.

The names of the successful candidates, and of others distinguished in the ordinary Bursary competition, will be published, in the order of merit, in the University Calendar, along with the names of the schools from which they come.

Conditions of Tenure.

Bursars in Arts shall attend in each year at least two classes qualifying for Graduation in Arts, and shall duly perform the work of these classes. But it is within the power of the Senatus, with the approval of the University Court, to permit such Bursars to attend classes qualifying for Graduation in Pure Science in place of classes qualifying for Graduation in Arts. [See Ordinance, No. 57.] Bursars who hold Bursaries tenable for four years, and who graduate at the end of three years, may retain their Bursaries during a fourth year if they engage in study approved by the Senatus in subjects included in the Curriculum for Degrees in Arts or in Pure Science.

¹ In Classics, the papers on prescribed books are not included.

Payment of Bursaries, Etc.

The attention of all Bursars in the Faculty of Arts is particularly called to the following regulation :—

"Bursars in the Faculty of Arts (to whose Bursaries special conditions are not attached) must annually attend at least two of the Classes necessary for the Degree of Master of Arts, and must present themselves at the Examinations necessary for that Degree.

"Each Fellow, Scholar, Bursar, or Prizeman, when he applies to the Factor for payment, must produce a Certificate signed by the Dean, or the Professor to whose department the Foundation is attached, attesting his regular attendance on the proper Classes, etc., or otherwise that he has fulfilled the conditions attached to the Foundation."

Certificates, in terms of this regulation, will be given to Bursars, by the *Dean of the Faculty of Arts*, after 13th November, and after the completion of the Bursars' Courses in each academic year. In applying to the Dean for the Certificate in November, Bursars must present their Class Cards for the ensuing academic year; and at the end of their courses they must present certificates from the Professors that they have attended with regularity and made progress in their studies. Payments are made by the University Factor, Sir Henry Cook, W.S., 61 North Castle Street, Edinburgh, as follows :—

For the Martinmas payments, on and after 14th November.

For the Whitsunday payments—Fellowships and Scholarships, on and after 18th May; Bursaries, at the end of the Courses in June.
Office hours, 10 to 3.

N.B.—Bursars, Scholars, and Fellows who desire to resign should at once announce this to the Factor. They must apply to the Factor for the instalments due to them within three months after they have become payable, otherwise they will be regarded as having resigned.

FACULTY OF SCIENCE

DEAN—PROFESSOR HUDSON BEARE, B.A., B.Sc., M.I.C.E.

PROGRAMME OF CLASSES, 1914-1915.

Note.—Further information regarding the Courses is given on the pages stated in the last column of the Table.

The Classes will be opened as in the following Table. They will close for the Christmas vacation on Friday, 18th December 1914 (Autumn Term); will reassemble on Tuesday, 12th January 1915, and close on Friday, 19th March 1915 (Spring Term); will reassemble on Tuesday, 20th April, and close not later than Friday, 18th June (Summer Term).

For Classes which are, in the first instance, in the Faculty of Arts (e.g., Mathematics and Natural Philosophy), see the Programme of that Faculty.

DAILY TIME-TABLES OF GRADUATION CLASSES are also given on pages 320-28, 391, 414, 420.

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees. See also pp. 301-3.	See also page
Mathematics (First Ordinary Course)	13 Oct., 9 a.m.	Professor Whittaker and Lec- turers	£4 4	197
Mathematics (Second Ordinary Course)	13 Oct., 12 noon		4 4	198
Mathematics (Intermediate Honours)	14 Oct., 11 a.m.		4 4	198
Mathematics (Adv. Honours and Laboratory)	14 Oct., 10 a.m.		4 4 ¹	199
Function Theory	21 Apr., 11 a.m.	Mr Gibb	2 2	199
Mathematics (Post-Graduate Course)	Oct.,	Prof. Whittaker		199
Mathematics, Technical : First Course	13 Oct., 9 a.m.	E. M. Horsburgh, M.A., B.Sc.	4 4	329
Mathematics, Technical : Second Course	14 Oct., 11 a.m.		4 4	329
Natural Philosophy	14 Oct., 11 a.m.	Prof. Barkla and Dr Carse	5 5 ²	200
Applied Mathematics (Engineering)	14 Oct., 10 a.m.	C. G. Knott, D.Sc.	3 3	346

Natural Philosophy and Applied Mathematics (M.A. Hons. and Final Science Classes):—			
Dynamics ³ (Autumn)	14 Oct., 9 a.m.	C. G. Knott, D.Sc.	2 2 } 4 202
Heat ³ (Spring)	13 Jan., 9 a.m.	Prof. Barkla	2 2 } 2 202
Electricity (1), ³ (Autumn)	14 Oct., 12 noon	Prof. Barkla	2 2 } 4 203
Electricity (2), ³ (Spring)	12 Jan., 11 a.m.	Prof. Barkla	2 2 } 2 203
Advanced Dynamics ³ (Spring)	13 Jan., 12 noon	C. G. Knott, D.Sc.	2 2 } 2 203
Quaternions and its Physical Application ³ (Summer)	21 Apr., 9 a.m.	C. G. Knott, D.Sc.	2 2 } 2 204
Electricity (Inter. Honours) ³ (Summer)	21 Apr., 9 a.m.	G. A. Carse, M.A., D.Sc.	2 2 } 2 202
Adv. Exp. Physics (Final Hons.) ³ (Summer)	21 Apr., 10 a.m.	G. A. Carse, M.A., D.Sc.	2 2 } 2 203
Physical Optics ³ (Autumn and Spring)	13 Oct., 12 noon	J. R. Milne, D.Sc.	2 2 } 2 203
Physical Laboratory	13 Oct., 10 a.m.	Prof. Barkla and Dr Carse	see p. 81 80
Astronomy ³ (Intermediate)	13 Oct., 3 p.m.	Prof. Sampson	4 4 } 2 306
Astronomy (Advanced)	26 Apr.	Dr L. Dobbin and Prof. Walker	2 2 } 2 306
Chemistry, 1st Course	13 Oct., 10 a.m.	Prof. Walker and Lecturers	4 4 } 4 307
Chemical Laboratory, 1st Course	13 Oct., 10 a.m.	Prof. Walker and Lecturers	4 4 } 4 308
Chemistry, Intermediate ³ (<i>Mon., Tues., Wed.</i>)	13 Oct., 9 a.m.	Prof. Walker and Lecturers	3 3 } 3 308
Chemistry, Advanced ³ (<i>Tues., Thurs., Autumn</i>) and Spring; <i>Tues., Thurs., Fri., Summer</i>)	Oct., 9.30-4.30	Prof. Walker and Lecturers	see p. 82 81
Chemical Laboratories (Intermed. and Adv.)	13 Oct., 12 noon	Prof. Walker and Lecturers	4 4 } 4 210
Zoology (Elementary)	12 Jan., 12 noon	Prof. Ewart	2 2 } 2 210
Practical Zoology (Elementary)	20 Apr., 12 noon	Prof. Ewart	4 4 } 4 210
Zoology (Elementary)	20 Apr., 10-12	Prof. Ewart	2 2 } 2 210
Practical Zoology (Elementary)	13 Oct., 10 a.m.	Prof. Ewart	see p. 82 82

1 5s. Entrance Fee for Non-matriculated Students (see page 35).

2 This Fee covers the Lectures and the fifty hours' Laboratory Course.

3 The fee for both Honours Half-Courses, when paid at the beginning of the Autumn Term, is £3, 3s.

4 Fee for each of the Courses, £2, 2s.; for the two, if taken together, £3, 3s.

5 With Practical Class at the Royal Observatory, Blackford Hill, Friday, 6.7.

6 Students who have already attended the full course may re-attend for one or more terms at a fee of £1, 1s. per term.

7 Besides charge of 10s. for Laboratory expenses.

8 Honours Graduation Half-Course.

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees. See also pp. 301-3.	See also page
Comparative Embryology	14 Oct., 1 p.m.	{ J. Beard, D.Sc.	£3 3 ²	312
Morphology of Vertebrates (with Laboratory Work)	13 Jan., 12 noon		3 3 ³	313
Invertebrate Zoology (with Laboratory Work)	21 Apr., 2-4 p.m.		3 3 ³	313
Zoology of Domestic Animals (25 lectures)	Apr., 4 p.m.	{ A. D. Darbshire, M.A. (Prof. Balfour & R. C. Davie, M.A., B.Sc.)	1 1 ²	372
Genetics (Evolution and Heredity)	13 Oct., 4 p.m.		2 2	314
Botany (First Science), Three Terms (<i>Tuesday</i> and <i>Thursday</i>)	13 Oct., 2 p.m.		6 6 ⁴	314
Field Demonstrations, Saturday.				
Botany (Intermediate)	13 Oct., 9 a.m.	{ Prof. Balfour and Lecturers	3 3 ⁴	315
Botany (Advanced)	13 Oct., 9 a.m.		3 3 ⁴	315
Botanical Laboratory (Intermediate and Adv.)	13 Oct., 9-5 p.m.		2 2 ⁴	315
Plant Physiology	13 Oct., 11 a.m.	{ J. L. S. Smith, M.A., B.Sc.	2 2 ⁴	316
Plant Physiology	20 Apr., 11 a.m.		2 2 ⁴	316
Mycology for Veterinary Students (25 mtgs.)	Apr., 2.30 p.m.		1 1 ⁴	372
Elementary Bacteriology (once weekly)	12 Jan., 2.30 p.m.	{ Malcolm Wilson, D.Sc.	1 1 ⁴	317
Elementary Bacteriology (once weekly)	20 Apr., 2.30 p.m.		1 1 ⁴	317
Geology (Three Terms)	14 Oct., 4 p.m.		4 4	310
Practical Class (Three Terms)	14 Oct., 2-4 p.m.	{ Prof. Jehu (Prof. Jehu, Dr Campbell, and Mr Finlay)	4 4 ⁵	311
Structural and Field Geology (<i>Monday</i> , <i>Wednesday</i> , and <i>Friday</i>)	21 Apr., 4 p.m.		3 3	311
Petrology (<i>Monday</i> , <i>Wednesday</i> , and <i>Friday</i>)	21 Apr., 11-1 p.m.		2 2	312
Palæontology (Autumn Term, daily)	14 Oct., 4 p.m.	{ T. M. Finlay, M.A., B.Sc.	2 2	312
Fossil Botany (Spring Term, <i>Tuesday</i> and <i>Thursday</i>)	Jan.,		...	312

Anatomy	6 Oct., 11 a.m.			4	4 ⁷	510
Anatomy, Practical	1 Oct., <i>daily</i>			3	3 ⁸	510
Regional Anatomy (Anatomical Demonstrations)	20 Apr., <i>daily</i>		Prof. Robinson and Assistants	2	2	510
Anthropology ¹¹	7 Oct., 9 a.m.			2	2 ⁹	511
Physiology	Apr., 10 a.m.			2	2 ¹⁰	511
	21 Apr., 1 p.m.		Prof. Robinson	2	2 ¹⁰	309
	6 Oct., 10 a.m.			4	4	512
Demonstrations on Wednesdays (12 to 1).						
Experimental Physiology, ^{12 13}	6 Oct., 11 a.m.		Prof. Sir Edward A. Schäfer,	2	2 ¹⁴	513
Chemical Physiology	5 Jan., 11 a.m.		Lecturers, and Assistants	1	1 ¹⁴	513
Histology	20 Apr., 8-10 a.m.			2	2 ¹⁴	513
	or 11-1 p.m.					
Advanced Experimental Physiology ¹⁵	13 Jan., 2-4 p.m.		J. Tait, M.D., D.Sc.	2	2 ¹⁴	309
Advanced Chemical Physiology ¹⁵	14 Oct.		W. Cramer, Ph.D., D.Sc.	1	1 ¹⁴	309
Advanced Histology ¹⁶	21 Apr.		H. Pringle, M.D.	1	1	309
Engineering, Junior ¹⁶	14 Oct., 9 a.m.			4	4 ¹⁷	331
Engineering, Senior ¹⁶	13 Oct., 9 a.m.			5	5 ¹⁷	332
Sanitary Engineering and Building Construction (Public Health) (<i>Thes. and Pri.</i>)	13 Oct., 11 a.m.		Prof. Hudson Beare and	2	2	350
Engineering Laboratory	14 Oct., <i>daily</i>		Lecturers	6	6	337
Engineering, Introductory (<i>Thes. and Thes.</i>)	20 Apr., 10 a.m.			1	1	330
Engineering, Field-Work (Surveying, Levelling, etc.) (3 days a week, 10 to 4)	20 Apr., 10 a.m.			3	3	332
Experimental Engineering (<i>Pri. and Pri.</i>)	9 Oct., 4 p.m.		J. B. Todd, B.Sc., A.M.I.E.	1	1 ^{18 19}	334
			Mech.E.			

¹ Tuesday, Thursday, and Friday, 2 hours each day.

² Besides charge of 10s. for Laboratory Expenses.

³ Besides charge of 5s. for Laboratory Expenses.

⁴ Free to Non-matriculated Students (see page 35).

⁵ Three months' course (for those who have previously taken a full course), £2, 2s.

⁶ When taken along with Practical Anatomy, £1, 1s.

⁷ When taken with Practical Anatomy, £1, 1s.

⁸ Three months' course, £2, 2s.

⁹ Fee for three months' course, £1, 1s.

¹⁰ Class meets in sections, at various hours.

¹¹ One division meets on Wednesday at 2, instead of 11.

¹² Times to be arranged. Women Students are admitted to this Class.

¹³ Each member of the Class has also to work for at least four hours a week in the Laboratory. Hours arranged at first meeting of Class.

¹⁴ Single Term, £2, 2s.

¹⁵ Free to Students taking the full Engineering Laboratory Course.

¹⁶ Half-course, 10s. 6d.

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees. See also pp. 301-3.	See also page
Engineering Drawing.	13 Oct., 10-4 p.m.	W. Hume Kerr, M.A., B.Sc.	£5 5 ¹	335
Lectures, Senior (<i>Monday</i>), Junior (<i>Thursday</i>)	15 Oct., 12 noon			
Public Health and Sanitary Science.	6 Jan., 3 p.m.	Prof. Hunter Stewart	4 4	349
Pub. Health and Sanitary Science Laboratory.	7 Oct., <i>daily</i>			
Drawing in its relation to Public Health.	14 Oct., 11 a.m.	W. Hume Kerr, M.A., B.Sc.	see p. 83	347
Agriculture and Rural Economy ²	13 Oct., 9 a.m.			
Agriculture and Rural Economy (Adv.), with Tutorial Instruction (4 meet. per week).	13 Oct., 12 noon	Prof. Wallace and J. A. S. Watson, B.Sc.	2 2	350
Garton Lectures on Colonial Agriculture (<i>Monday and Thursday</i>)	15 Oct., 12 noon			
Economics as Applied to Agriculture (Political Economy Class—Autumn Term).	13 Oct., 9 a.m.	Prof. Nicholson	4 4 ³	352
Forestry, Intermediate (Spring and Summer)	12 Jan., 11 a.m. (Summer, 9 a.m.)			
Forestry, Advanced (Autumn and Spring)	13 Oct., 9 a.m.	E. P. Stebbing and Assistants	3 3	361
Practical Forestry (Junior)	Easter Vacation and Summer Term			
Practical Forestry (Senior)	Vacations and Summer Term	R. Stewart MacDougall, M.A., D.Sc.	3 3	366
Agricultural Entomology	14 Oct., 3 p.m.			
Agricultural Entomology, Practical	14 Oct., 2 p.m.	A. W. Borthwick, D.Sc.	2 2 ⁴ 5	359
Forest Zoology	14 Oct., 3 p.m.			
Forest Zoology, Practical	14 Oct., 2 p.m.	Malcolm Wilson, D.Sc.	1 11 6 ⁴ 6	360
Forest Botany	14 Oct., 2 p.m.			
Mycology (Agriculture and Forestry)	13 Oct., 2-30 p.m.	Wm. Gordon, B.Sc., A.M.I., Mech.E.	3 13 6 ⁶	368
Forest Engineering	14 Oct., 11 a.m.			
Law of Landlord and Tenant ⁷	12 Jan., 9 a.m.	Charles R. A. Howden, M.A.	4 4	366
			2 2 ⁴	367
			3 3	370
			1 1 ⁴	361

¹ Single term, £2 5s.² Dairying Lectures of this Course in February and March, Fee, £1, 1s., with 6s. Entrance Fee (see page 85).³ For both Courses, if paid at the beginning of the first year, £6, 6s. 45s. Entrance Fee for Non-matriculated Students (see page 85).⁴ The Course of Lectures on Agricultural Entomology is free to past and present students of the Ordinary Class of Agriculture, but such students require to pay a fee of £1, 11s. 6d. in respect of the Practical Course.⁵ This fee includes 10s. 6d. for Class material.⁶ Besides Garden Fee, 5s.⁷ Held in alternate years. Course in January 1915.

FEES FOR SECOND OR SUBSEQUENT ATTENDANCES.

1. *Lecture Courses*, which qualify alike for Graduation in Science and Medicine: Second attendances on £4, 4s. Courses, £3, 3s.; on £3, 3s. Courses, £2, 2s.; subsequent attendances free: second attendances on £2, 2s. Courses, no reduction; third or subsequent attendances, £1, 1s. Perpetual Tickets for initial payment, £6, 6s. No reduction for re-attendances on Practical Classes or Laboratories.

2. *Lecture Courses* which qualify both for Arts and Science: Second attendances on £4, 4s. Courses, £3, 3s.; third or subsequent attendances, £1, 1s.: second attendances on £3, 3s. Courses, £2, 2s.; third or subsequent attendances, £1, 1s.: second attendances on £2, 2s. Lecture Courses (not being Honours Half-Courses for M.A.), £1, 11s. 6d.; third or subsequent attendances, £1, 1s.; Lecture Courses, when fee for first attendance is less than £2, 2s., no reduction. Full Courses (being also Honours Courses for M.A.), second attendances, no reduction; third or subsequent attendances, £2, 2s.: second attendances on £2, 2s. Courses (being also Half-Honours Courses for M.A.), no reduction; third or subsequent attendances, £1, 1s.

3. *Lecture Courses* not included in the curricula in Arts or Medicine: Second attendances on £3, 3s. Courses, no reduction; third or subsequent attendances, £2, 2s.: on £2, 2s. Courses, second attendances, no reduction; third or subsequent attendances, £1, 1s. Ordinary Class of Agriculture and Rural Economy, second attendance, £3, 3s. Ordinary Class in one year, and Advanced in the same or in the following year (initial payment), £6, 6s. (This fee does not cover re-attendance on either course.) Ordinary and Advanced Classes in two consecutive years, permitting re-attendance on any part of either course within that period (initial payment), £7, 7s.

4. *Courses in Engineering and Drawing*. No reduction for second or subsequent attendances.

5. *Practical Classes and Laboratory Courses*. No reduction for re-attendances.

MATRICULATION, ETC.

Matriculation consists in paying annually an entrance fee to the University, and in inscribing the name in the Students' Album.

The Matriculation Fees are:—

For the Academic Year, 1st October to 1st October.	£1 1 0
For the Summer Session only, 1st April to 1st October	. 0 10 6

Note.—Candidates for Examination or for Graduation must pay the Matriculation Fee of £1, 1s., unless previously matriculated for the whole year.

Candidates for Degrees, not being Matriculated Students, who are attending Extra-Academical Classes in Edinburgh, pay a fee equivalent to the Matriculation Fee.

University Entrance Fee, in lieu of Matriculation, for each of certain Courses *specified in the Programme of Classes*, when not taken for Graduation £0 5 0

Payment of the Entrance Fee does not entitle the student to a certificate of attendance, nor confer any other University privilege.

Students who do not intend to graduate in Science may attend any of the classes on payment of the Matriculation and the Class Fees, without having passed any Preliminary Examination. Those who wish their classes to count for graduation must pass the Preliminary Examination.

CLASS FEES IN THE FACULTY OF SCIENCE.

All students in Pure Science who began their curriculum in any academic year before 1912-13; all students in Agriculture, Engineering, and Forestry who began their curriculum in any academic year before 1914-15; and all students in Public Health and Veterinary Science, shall continue to pay the normal class fees, as they have been fixed hitherto (see Programme of Classes, pp. 296-300).

All students in Pure Science who began their curriculum in the academic year 1912-13, or any subsequent year, and all students in Applied Science (except Public Health and Veterinary Science) who began their curriculum in the academic year 1914-15, or any subsequent year, and who intend to pursue a regular course with a view to graduation, shall pay an Inclusive Fee, in place of the fees for separate classes.

The Inclusive Fee for the curriculum for the Degree of B.Sc. in Pure Science, in Engineering (Civil, Mechanical, or Electrical), in Agriculture, or in Forestry, is sixty guineas, payable in three annual instalments of twenty guineas each.

The Inclusive Fee for the curriculum for the combined Degrees of M.A. and B.Sc. in Pure Science or in any one of the above Applied Sciences, is seventy-five guineas, payable in three annual instalments of twenty guineas and a fourth instalment of fifteen guineas.

NOTE.—Classes taken outside the University do not qualify for graduation in Arts.

The Inclusive Fee for the curriculum for the combined degrees of B.Sc. in Agriculture and B.Sc. in Forestry is ninety guineas, payable in four annual instalments of twenty guineas, and a fifth instalment of ten guineas.

All Fees, whether instalments of an Inclusive Fee or normal Class Fees, are payable before attendance at classes begins.

No student who began his curriculum in Pure Science in the academic year 1912-13, or in Applied Science (except Public Health and Veterinary Science) in the academic year 1914-15, or any subsequent year, will be admitted to a degree examination in any year, until he has paid in full the instalment, if any, of the Inclusive Fee payable in respect of that year and of every preceding year of his curriculum.

No students who under these regulations pay an Inclusive Fee for their curriculum will be admitted to graduation until the whole of the Inclusive Fee has been paid.

The above Inclusive Fee will admit to all classes which are necessary or desirable as parts of a curriculum leading to the Degree of B.Sc. in Pure Science or Applied Science, as above, and are approved as such by the Official Adviser, subject to the consent of the Dean of the Faculty.

A student may attend a non-graduating class, or any class in addition to those approved as necessary or desirable parts of a curriculum leading to the degree, on payment of the normal class fee.

A student who has attended a class or classes which did not qualify for graduation, and has subsequently obtained leave to count such attendance as qualifying, shall be allowed to deduct the fees paid for such classes from the first annual instalment of his Inclusive Fee.

The Inclusive Fee for the Degree of B.Sc. in Pure Science or Applied Science will not cover second attendance at any laboratory or practical class: it will cover second attendance at one other class, but will not cover a third or subsequent attendance at any class. The fees for such second or subsequent attendances remain as before (see p. 301).

A student who presents a certificate that he has attended a course of instruction qualifying for graduation in Pure Science or Applied Science, given in a recognised University or Institution, or by a recognised extra-academical teacher, shall be entitled to a deduction from the Inclusive Fee of the amount paid for such course of instruction, being not in excess of the amount of the normal fee for the corresponding course given in the University, provided always that he has not already attended the latter course as part of his curriculum in this University.

ENTRY INTO CLASSES IN THE FACULTY OF SCIENCE.

Every person who enters a class-room on the opening day of any Course in the Faculty of Science must present to the Servitor in charge—

A Class Ticket, or the corresponding counterfoil issued by the Fee Office ;

Or a Pass from the Official Adviser ;

Or a Pass signed by the Professor or Lecturer who is giving the Course ;

Or a Pass from the Secretary of the University Court.

Any student who begins to attend after the opening day must give a satisfactory excuse for his late entry. No Professor or Lecturer will in any term admit a student to a Qualifying Course in Science more than two weeks after the advertised day of opening, without the express permission of the Faculty.

Note.—Any Introductory Lecture, which is open to the general public, will be specially advertised, or otherwise announced. When such Lecture is given on the first day, the opening day for the purpose of the above Regulations will be the second day on which the Class meets.

OFFICIAL ADVISER.

(Dr CARGILL G. KNOTT.)

Intending students who propose to study in the Faculty of Science in Session 1914-15 are requested to apply to the Clerk, Matriculation Office, for a copy of the "Schedule of Information for the Official Adviser in the Faculty of Science."

With this Schedule properly filled up, every student must consult the Official Adviser, in the Applied Mathematics Retiring-Room, Natural Philosophy Buildings, Drummond Street, from 1st October onwards (Wednesdays and Saturdays excepted), from 9.30 to 12.30 and from 2 to 4 ; and should obtain (1) his approval of his proposed curriculum as a whole, and (2) an Official Adviser's Pass, to be presented at the Class Fee Office, for the classes to be taken during the academic year 1914-15.

Graduation Students of other Years than the First.

Graduation Students of other years than the first are recommended to consult the Official Adviser during the last fortnight of the Summer Term, and obtain from him a pass for their classes for the next academic year.

Students who have postponed the fixing of their classes for 1914-15 may consult the Official Adviser on the days stated above, from 9.30 to 1 and from 2 to 4.

COURSES OF INSTRUCTION.

DEPARTMENT OF PURE SCIENCE.

MATHEMATICS.

PROFESSOR E. T. WHITTAKER, M.A., Sc.D., F.R.S., assisted by
 CHARLES TWEEDIE, M.A., B.Sc., DAVID GIBB, M.A., B.Sc.,
 * * * , *Lecturers in Mathematics*; E. M.
 HORSBURGH, M.A., B.Sc., A.M.I.C.E., *Lecturer in Technical
 Mathematics.*

For Synopses of Lectures, see under FACULTY OF ARTS

Note.—Any student may be allowed to substitute for the qualifying attendance on the Ordinary Class of Mathematics an attendance on the first part of the Course of Technical Mathematics, and to take, instead of the Second Pure Mathematical Paper for the first B.Sc. (the same as for the Ordinary Degree of M.A.) the first of the Mathematical Papers for the first B.Sc. examination in Engineering, or he may take both of the papers for the first B.Sc. in Engineering if he possesses the requisite knowledge of Technical Mathematics.

NATURAL PHILOSOPHY AND APPLIED MATHEMATICS.

PROFESSOR BARKLA and DR KNOTT.

G. A. CARSE, M.A., D.Sc., *Lecturer on Natural Philosophy.*

For Synopses of Courses, see under FACULTY OF ARTS.

The first B.Sc. qualifying Course in Natural Philosophy is the Ordinary Natural Philosophy Course, including lectures and practical work.

The Intermediate Honours Classes in Applied Mathematics, Heat, and Electricity qualify as Half-Courses for the First Stage of the Final Examination in Pure Science.

The Final Honours Classes in Applied Mathematics, (a) Advanced Dynamics, (b) Quaternions in their Physical Applications, Advanced General Physics, Physical Optics, Electricity I, Electricity II, qualify as Half-Courses for the Second Stage of the Final Examination in Pure Science.

APPLIED MATHEMATICS.C. G. KNOTT, D.Sc., *Lecturer.*

As indicated in the foregoing section, there are three Honours Courses in Applied Mathematics qualifying for the Final Examination in Pure Science:—

- (i.) Analytical Dynamics, qualifying for the Intermediate Standard.
- (ii.) Advanced Dynamics (including Elasticity, Hydrodynamics, etc.), qualifying for the Advanced Standard.
- (iii.) Quaternions in their Physical Applications, qualifying for the Advanced Standard.

For Dynamics Course in Applied Science, see under Engineering, p. 346.

ASTRONOMY.

PROFESSOR SAMPSON.

Intermediate Course.

The Intermediate Course is the same as the Course in the Faculty of Arts, and consists of sixty lectures, and, on different days, twenty meetings of two hours each for Observatory work.

The lectures are delivered at the University on Tuesday Wednesday, and Thursday, at 3 P.M., and the class meets on Friday at the Royal Observatory, Blackford Hill, from 5 to 7 P.M., for practical exercises.

(For further details of Course, see under ARTS.)

Advanced Course.

The Professor proposes to conduct an Advanced Course in the Summer Term, with fifteen meetings at the Observatory of two hours each, on Tuesday, Wednesday, and Thursday, 5 to 7.

The Course will deal with theory and practice of finding star-places from a photographic plate, and will include the outlines of combination of observations; derivation of differential and fundamental positions of reference stars; formation of a star-catalogue.

Students will be expected to study, under direction, memoirs and books where the procedures are described. Professor Sampson reserves the right of admission to this Course. Students

proposing to attend should communicate with him early in the Spring Term. They must be adequately prepared with a good knowledge of Mathematics and Optics. Fee for this Course, £2, 2s.

Attendance on the Advanced Course in Physical Optics by Dr Milne would form part of the Advanced Course in Astronomy.

CHEMISTRY.

PROFESSOR WALKER.

LEONARD DOBBIN, Ph.D., A. C. CUMMING, D.Sc., W. WHITE TAYLOR, M.A., D.Sc., and J. E. MACKENZIE, D.Sc., Ph.D.,
Lecturers.

First Lecture Course.

DR DOBBIN and PROFESSOR WALKER.

The Class meets on Mondays, Wednesdays, and Fridays, from 10 to 11, during the three terms. For Tutorial work, which is obligatory, the Class may be divided into two sections, which will meet on Tuesdays and Thursdays.

The lectures are devoted to Elementary Inorganic Chemistry, embracing the more important metallic and non-metallic elements and their chief compounds, together with an introduction to Chemical Theory. Special lectures are given to Engineering, Agricultural, and Forestry students on ordinary meeting days of the Class. Fee £4, 4s.

First Laboratory Course.

This Course should be taken in conjunction with the First Lecture Course. It meets for two hours twice a week during the three terms. The work will include simple inorganic preparations, the detection of the chief inorganic elements and compounds, the analysis of simple inorganic mixtures, and an introduction to Volumetric Analysis. Fee £4, 4s.

Students who intend to profess Chemistry as a subject in the Final B.Sc. examination may take part of their Intermediate Laboratory Work concurrently with the First Laboratory Course.

Intermediate Lecture Course.

PROFESSOR WALKER and LECTURERS.

The Class will meet on Mondays, Tuesdays, and Wednesdays, during all three terms, from 10 to 11. In the Autumn Term, Advanced Inorganic Chemistry, Chemical Theory, and Elementary Physical Chemistry will be taken up. In the Spring and Summer Terms the work will be devoted chiefly to Organic Chemistry. Fee £4, 4s.

Intermediate Laboratory Course.

A minimum of 240 hours must be given to laboratory work, which will include the preparation of typical inorganic and organic substances, the testing of organic substances, complex qualitative analysis, and simple quantitative estimations.

Advanced Lecture Course.

PROFESSOR WALKER and LECTURERS.

An Advanced Lecture Course of about 70 lectures will be given during the three terms. The Class will meet from 9 to 10 on Tuesdays and Thursdays during the Autumn and Spring Terms; and on Tuesdays, Thursdays, and Fridays during the Summer Term. Fee £3, 3s.

Advanced Laboratory Work.

In addition to the time spent in the laboratory for the First and Intermediate Courses, students who take Chemistry on the Higher Standard must give at least 240 hours' attendance in the laboratory. The work will include further inorganic analysis, the testing and ultimate analysis of organic substances, gas analysis, assaying, and physico-chemical measurements.

The fee for the Intermediate and Final Laboratory Courses is—

Whole Day, £6, 6s. per term.

Half Day, £3, 3s. „ „

Or for the three terms of the academic year—

Whole Day, £16, 16s.

Half Day, £8, 8s.

HUMAN ANATOMY, including ANTHROPOLOGY.

PROFESSOR ROBINSON, with E. B. JAMIESON, M.D., and
T. B. JOHNSTON, M.B., Ch.B.

For a Synopsis of Lectures on Anatomy and for Course of Practical Anatomy, see under FACULTY OF MEDICINE.

Anthropology.

If a sufficient number of students express their intention of selecting Human Anatomy, including Anthropology, as a subject for the degree of B.Sc., there will be a Course of twenty-five lectures and demonstrations on Physical Anthropology during the Summer Session 1915. Members of the Class will be trained in Anthropometrical methods. Fee, £2, 2s.; or, for students who take the Summer Course of Practical Anatomy, £1, 1s.

PHYSIOLOGY.

PROFESSOR Sir EDWARD A. SCHAFER, with DRS CRAMER, PRINGLE, TAIT, and NINIAN BRUCE, *Lecturers*, and Mr R. J. M. HORNE, M.A., B.Sc.

For Synopsis of Lectures, and Elementary Courses of Practical Physiology and Histology, see under FACULTY OF MEDICINE.

Advanced Practical Physiology.¹

This Course is devoted to Experimental and Chemical Physiology and Histology of a more advanced nature than that of the ordinary Course of Practical Physiology. It is important that those who propose attending the Course should have already attended the Elementary Courses (or similar Courses elsewhere). The Course is divided into three parts, viz.: (1) Experimental; (2) Chemical; (3) Histological. Parts 1 and 2 are taken in the Winter Session, Part 3 is taken in the Summer. Fee, £2, 2s. for any part separately: £5, 5s. for all three parts.

This Course is adapted for those preparing for the B.Sc. Examination in Physiology, and for those who may afterwards desire to prosecute Researches in Physiology or Pathology.

¹ This Course is open to women students.

A small fee is charged in each Part to cover the cost of materials.

GEOLOGY, including MINERALOGY.

A.—Class of Geology and Mineralogy.

PROFESSOR JEHU.

This Course extends over three terms—Autumn, Spring, and Summer. The work of the Class is distributed as follows :—

Autumn Term.

Dynamical Geology.—A discussion of the nature and causes of geological changes effected on the surface and within the interior of the earth.

The Class meets at 4 o'clock on Mondays, Wednesdays, and Fridays.

Spring Term.

Mineralogy.—An account of the physical and chemical characters of minerals, and a description of some of the more important and typical species in the various mineral groups.

Petrography.—A description of the various families of rocks.

Tectonic Geology.—A description of the geological structure and relations of rock-masses to each other.

Physiographical Geology.—An inquiry into the origin of the present outlines of the earth's surface.

The Class meets on Mondays, Wednesdays, and Fridays at 4 o'clock.

[*N.B.*—For Arts students, demonstrations of one hour each are held on Tuesdays and Thursdays at 4 o'clock.]

Summer Term.

Palaeontological and Historical Geology.—A description of the more important types of life represented by fossils, together with the history of the successive geological periods.

The Class meets on Tuesdays and Thursdays at 4 o'clock.

[*N.B.*—For Arts students, demonstrations of one hour each are held on Wednesdays at 4 o'clock.]

Field demonstrations, which must be attended by both Science and Arts students, are given as frequently as possible during each term of the Course.

Textbooks.—*Outlines of Geology*, by the Professor (Stanford); Miers' *Mineralogy* (Macmillan & Co.); Hatch's *Petrology* (Sonnenschein) or Harker's *Petrology for Students* (Cambridge University Press); Woods' *Palæontology* (Cambridge University Press).

B.—Class of Practical Mineralogy and Geology.

ROBERT CAMPBELL, M.A., D.Sc., THOMAS M. FINLAY, M.A.,
B.Sc., and PROFESSOR JEHU

This Class meets on Mondays, Wednesdays, and Fridays, from 2 to 4 o'clock during the Autumn and Spring Terms, and daily from 1 to 2 o'clock in the Summer Term. It qualifies for the Science degree, and forms a second ordinary Course qualifying for the Arts degree.

The Field demonstrations on Saturdays are open to students attending this Class.

C.—Class of Structural and Field Geology.

PROFESSOR JEHU, assisted by DR CAMPBELL.

This Class is held during the Summer Term.

The following subjects are dealt with in the Course:—*Dynamical Geology; Tectonic or Structural Geology; Geological Surveying; Economic Geology* - the application of the Science to Mining, Engineering, Agriculture, Public Health, etc.

This Class is intended to meet the requirements of students of Applied Science. No previous knowledge of Geology is required of those attending the Class - the principles of the Science being set forth both in the lecture-room and the field.

The Class meets on Mondays, Wednesdays, and Fridays at 4 o'clock, and a series of practical lessons on the study of rocks and minerals will be given at the beginning of the term, on Tuesdays and Thursdays, at the same hour. The Saturdays, so far as possible, are devoted to field demonstrations.

Textbook.—*Structural and Field Geology*, by Emeritus Professor Geikie (Oliver & Boyd).

Adjoining the class-room is a small museum exhibiting minerals and rocks, and the typical fossils of the different geological systems.

D.—Petrology.

ROBERT CAMPBELL, M.A., D.Sc., *Lecturer*.

Lectures and Practical Work, on Mondays, Wednesdays, and Fridays, from 11 to 1, in Summer.

E.—Palæontology.

THOMAS M. FINLAY, M.A., B.Sc., *Lecturer*.

Lectures and Practical Work daily, from 4 to 5 o'clock, during Autumn Term.

F.—Fossil Botany.

THOMAS M. FINLAY, M.A., B.Sc., *Lecturer*.

Lectures and Demonstrations on Tuesdays and Thursdays during Spring Term. Hour of meeting of class will be arranged to suit students.

(This Course is open, free, to Advanced Students of Geology and Botany.)

ZOOLOGY, including COMPARATIVE ANATOMY.

PROFESSOR EWART.

For Synopses of Lectures on Zoology and of Courses on Practical Zoology for First Science Examination, see under FACULTY OF ARTS; and see also p. 380.

COMPARATIVE EMBRYOLOGY.

J. BEARD, D.Sc., *Lecturer*.

The Course consists of Lectures and Practical Work.

Lectures.—The following subjects, among others, will be dealt with:—Conjugation, sexual and asexual reproduction, the history and life-cycle of the germ-cells, including the maturation,

etc., of the egg and spermatozoon, egg-cleavage and the course of development in a series of selected types, the development of Scyllium or Raja, Amphioxus and Rana as a basis for general Vertebrate Embryology, the organogeny of some of the systems of organs in the Vertebrata, the evolution and comparative development of the placenta. Lectures will be given on the general principles and theory of Comparative Embryology, alternation of generations, the nature of larval forms, genetic variation, and the nature and course of Heredity, including the chief Theories of Heredity.

Practical Work.—Each member of the Class will have an opportunity of preparing for himself, if time allows, and of studying a series of preparations to illustrate Cytology and the development of various higher animals. In addition, an extensive series of preparations of Raja, Scyllium, Torpedo, Amphioxus, etc., and of certain Invertebrate forms will be available.

In the laboratory work members of the Class may confine their studies to one particular type, or to some selected branch, such as Mammalian Embryology.

MORPHOLOGY OF THE VERTEBRATA.

J. BEARD, D.Sc., *Lecturer.*

A Course of twenty-five lectures (with Laboratory work) on the Morphology, including the Organogeny of the Vertebrata; the nervous system and its sense organs, the genito-urinary system, and, as far as time permits, the question as to the morphological nature of the vertebrate head and skeleton will be discussed.

The work of the class is intended to supplement that of the course of Comparative Embryology.

INVERTEBRATE ZOOLOGY.

J. H. ASHWORTH, D.Sc., *Lecturer*

A Course of twenty-five lectures on the Morphology of the Invertebrata. In 1915 the lectures will be on Protozoa, Porifera, Cœlenterata, and Vermes; in 1914 on Echinoderms, Molluscs, and Arthropoda. In the laboratory, members of the Class will study types selected from the above-named groups.

GENETICS (EVOLUTION AND HEREDITY).

A. D. DARBISHIRE, M.A.

The Course is given in the Autumn and Spring Terms, on Mondays, Wednesdays, and Fridays at 4 P.M., in the Natural History Department.

The Course consists of two parts, namely, twenty-five lectures on Evolution, in the Autumn Term; and twenty-five lectures on Heredity, in the Spring Term.

The lectures on Evolution will deal with the work of Buffon, Erasmus Darwin, Lamarck, Charles Darwin, Butler, de Vries, and Bergson, regarded from the point of view of the difference between the mechanistic and vitalistic interpretation of life and of evolution. An endeavour will be made to re-state the problem of Evolution in terms of a theory of life, and to review such controverted questions as the transmission of acquired characters, and the part played by "external causes" in determining organic change, in the light of this re-statement.

The lectures on Heredity will deal with biometrical method and philosophy, the law of ancestral inheritance, and the theory of "pure lines"; the Mendelian phenomena, methods and principles, their biological significance and practical application; the mode of inheritance of sexual characters; the inheritance of pathological characters and immunity to disease; and the idea of heredity as a phenomenon of memory.

BOTANY.

PROFESSOR BAYLEY BALFOUR.

R. C. DAVIE, M.A., B.Sc., MALCOLM WILSON, D.Sc.,
JAMES L. S. SMITH, M.A., B.Sc., *Lecturers.*
Tutor.

A.—Introductory Course.

R. C. DAVIE, M.A., B.Sc., *Lecturer*, and PROFESSOR
BAYLEY BALFOUR.

This is the Three-Term Course for Students preparing for the M.A. or First Science Examination.

Autumn Term.—Lectures on Tuesdays and Thursdays at 2 P.M.

Practical Work in the Laboratory from 3 P.M. until 5 P.M.

Excursions are made during the Term.

During this Term a study is made of the Anatomy and Histology of Phanerogamic Plants and their elementary Physiology.

Spring Term.—Lectures on Tuesdays and Thursdays at 2 P.M.

Practical Work in the Laboratory from 3 P.M. until 5 P.M.

Excursions are made during the Term.

During this Term the life-histories of selected types of Cryptogamic Plants are studied.

Summer Term—Lectures on Tuesdays and Thursdays at 2 P.M.

Practical Work in the Laboratory from 3 P.M. until 5 P.M.

Excursions are made during the Term.

The work during this Term deals with Phanerogamic Plants, particularly those represented in the British Flora.

Fee for the whole or any part of the Course, £6, 6s., and a Garden Fee of 5s.

B.—Intermediate Course.

PROFESSOR BAYLEY BALFOUR, LECTURERS, and TUTOR.

Autumn and Spring Terms.—Lectures and Laboratory Work on five days a week, from 9 A.M. until 1 P.M.

A minimum of 250 hours must be given to Laboratory Work, and Field Demonstrations must be attended.

The work of the Course includes an extended study of selected types of plants, the principles of Organography, the basal facts of Physiology, the floristic features of the British Flora, elementary data of Ecology.

Fee for the Course—Lectures £3, 3s., Laboratory £2, 2s., and a Garden Fee of 5s.

C.—Advanced Course.

PROFESSOR BAYLEY BALFOUR, LECTURERS, and TUTOR.

Autumn, Spring, and Summer Terms.—Lectures and Laboratory Work from 9 A.M. until 5 P.M.

250 hours must be given to Laboratory Work, in addition to the time required for the Intermediate Course.

The work of the Course includes an extended study of plant life, and a discussion of the problems of Geographical Distribution, Ecology, and Evolution.

Fee for the Course £3, 3s., Laboratory £2, 2s.

D.—Plant Physiology.

JAMES L. S. SMITH, M.A., B.Sc., *Lecturer.*

Autumn Term.—Lectures and Laboratory Work on two days a week, from 9 A.M. until 1 P.M.

The work of this Course is the experimental study of the functions of plants.

The Fee for the Course is £2, 2s., and in addition there is a Garden Fee of 5s. for those attending no other Course in the Garden.

Summer Term.—A Course similar to the above.

E.—Mycology.

MALCOLM WILSON, D.Sc., *Lecturer.*

Autumn Term.—Lectures and Laboratory Work on Tuesdays and Fridays, from 2.30 P.M. until 5 P.M.

The work of the Course is a study of Fungi, Bacteria, and Mycetozoa, with special reference to the orders causing plant disease.

Spring Term.—This Course is a continuation of that of the Autumn Term, and is a special one, dealing with Agricultural Mycology on one day a week and Forestry Mycology on another day:—

(a) AGRICULTURAL MYCOLOGY.

Lectures and Laboratory Work on Tuesdays, from 2.30 P.M. until 5 P.M.

The work of the Course is the study of the more important diseases of agricultural crops and the methods of prevention applicable to them, and includes the consideration of parasitism, breeding of immune varieties, sprays and spraying machinery.

(b) FOREST MYCOLOGY.

Lectures and Laboratory Work on Fridays, from 2.30 P.M. until 5 P.M.

The work of the Course is a study of the principal diseases of forest trees and methods of prevention applicable to them, and includes the breeding of immune varieties. The practical work is the examination of the principal tree diseases

Fee for the whole Mycology Course £2, 2s

Summer Term.—A special Course for Veterinary Students.

Lectures and Laboratory Work once a week at 2.30 P.M.

Fee for this Course, £1, 1s., besides a Garden Fee of 5s.

F.—Bacteriology.

MALCOLM WILSON, D.Sc., *Lecturer.*

Spring Term.—Lectures and Laboratory Work on Wednesdays, at 2.30 P.M.

Summer Term.—A Course similar to the above.

Fee for the Course in any one Term is £1, 1s.

G.—Palæophytology.

T. M. FINLAY, M.A., B.Sc., *Lecturer.*

A Course in one Term on this subject is given.

For the First B.Sc. Examination the student takes Course A.

For the Final Examination in Pure Science on the Intermediate Standard, Courses B and D, on the Higher Standard Courses C, D, F, and G.

DEPARTMENT OF ENGINEERING.

A full description of the block of buildings in which the Engineering Department is housed, and of the equipment in the Laboratories will be found in the CALENDAR for 1912-13, p. 324.

The work of this Department includes Lectures, Drawing Office Work, practical work in the Laboratories, Surveying and

Field Work, and visits to Engineering works and manufactories, details of which are given below.

It must be clearly understood that these Classes are not intended to supersede the practical training which can only be acquired in the office or workshop during a pupilage or its equivalent. The training given in these Classes, however, will be found to be of value in enabling those who have gone through them to obtain more advantage from the opportunities afforded them during their professional pupilage or apprenticeship.

Though primarily intended to meet the wants of students who propose to devote themselves to some branch of engineering, the work of the Classes will be found to be of direct practical value to those who are training for the profession of an architect, and also to all those who propose to engage in occupations directly connected with manufacturing industries

COURSES OF STUDY.

Before deciding upon their courses of study, all Engineering students are strongly advised to consult the Professor of Engineering.

The following Courses are recommended for Civil, Mechanical, and Electrical Engineering students who are preparing for the degree of B.Sc. in Engineering :—

CIVIL, MECHANICAL, AND ELECTRICAL ENGINEERING.

FIRST YEAR.

All these Classes are taken in the University.

Whole Session.

Hour	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.
9	Technical Mathematics	Technical Mathematics	Technical Mathematics	Technical Mathematics	Technical Mathematics
10	Chemistry	Chemistry	Chemistry	Chemistry	Chemistry
11	Natural Philosophy	Natural Philosophy	Natural Philosophy	Natural Philosophy	Natural Philosophy
12					

Chemical Laboratory and Natural Philosophy Laboratory. — Hours to be arranged personally.

Summer Term.

10	—	Introductory Engineering	—	Introductory Engineering	—
11					
12	—	—	—	Junior Engineering : Drawing Lecture	—
1					

Drawing office — Hours to be arranged personally.

CIVIL ENGINEERING.

SECOND YEAR—Autumn and Spring Terms.

University Classes printed in ordinary type; Heriot-Watt College Classes in italics.

1 = Autumn Term; 2 = Spring Term.

Hour.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9	Engineering Lecture 1 2	Engineering Lecture 1 2	Engineering Lecture 1 2	Engineering Lecture 1 2	Engineering Lecture 1 2
10	<i>Mechanical Engineering Lecture</i> 1 2	<i>Electrical Engineering Lecture</i> 2	<i>Electrical Engineering Tutorial</i> 2	<i>Mechanical Engineering Lecture</i> 1 2	—
11	Technical Mathematics 1 2	Technical Mathematics 1 2	Technical Mathematics 1 2	Technical Mathematics 1 2	Technical Mathematics 1 2
12	—	—	—	Engineering Drawing Lecture (Junior) 1 2	—

CIVIL ENGINEERING—continued.

THIRD YEAR.

All the Classes named below are taken at the University of Edinburgh.

1 = Autumn Term ; 2 = Spring Term ; 3 = Summer Term.

Hour	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY	FRIDAY.	SATURDAY.
9	Engineering Lecture 1 2 3	Engineering Lecture 1 2 3	Engineering Lecture 1 2 3	Engineering Lecture 1 2 3	Engineering Lecture 1 2 3	—
10	Applied Mathematics 1 2	—	Applied Mathematics 1 2	—	Applied Mathematics 1 2	—
11	—	—	—	—	—	—
12	—	Engineering Drawing Lecture (Senior) 1 2 3	—	—	—	Field Work in Geology 3
1	—	—	—	—	—	—
2	—	Engineering Laboratory	—	Engineering Laboratory	—	—
4	—	Geology 3	Geology 3	Geology 3	Geology 3	Experi- mental Engineering 1 2
5	Geology 3	—	—	—	—	—

Engineering Drawing.—Nine hours a week must be spent in the Drawing Office during the Autumn, Spring, and Summer Terms.

MECHANICAL ENGINEERING.

SECOND YEAR—Autumn and Spring Terms.

University Classes printed in ordinary type; Heriot-Watt College Classes in italics.

1—Autumn Term; 2—Spring Term.

Hour.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.
9	Engineering Lecture 1 2	Engineering Lecture 1 2	Engineering Lecture 1 2	Engineering Lecture 1 2	Engineering Lecture 1 2
10	<i>Mechanical Engineering Lecture</i> 1 2	<i>Electrical Engineering Lecture</i> 2	<i>Electrical Engineering Tutorial</i> 2	<i>Mechanical Engineering Lecture</i> 1 2	—
11	Technical Mathematics 1 2	Technical Mathematics 1 2	Technical Mathematics 1 2	Technical Mathematics 1 2	Technical Mathematics 1 2
12	—	—	—	Engineering Drawing Lecture (Junior) 1 2	—
1	—	<i>Mechanical Engineering Tutorial</i> 1	—	—	—
2	<i>Mechanical Engineering Laboratory</i> 1	<i>Electrical Engineering Laboratory</i> 2	Engineering Laboratory	—	Engineering Laboratory
4	—	—	—	—	—

MECHANICAL ENGINEERING—continued.

SECOND YEAR—Summer Term.

Hour.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.
9	—	<i>Heat Engines Lecture</i>	—	<i>Heat Engines Lecture</i>	<i>Heat Engines Lecture</i>
10	Surveying Lecture	—	Surveying Lecture	—	<i>Heat Engines Tutorial</i>
11	—	—	—	—	Surveying Lecture
12	—	—	—	Engineering Drawing Lecture (Junior)	—
1	Surveying Field Work	—	Surveying Field Work	—	Surveying Drawing Office
2	—	<i>Heat Engines Laboratory</i>	—	—	—
3	—	—	—	—	—
3.30	—	—	—	—	—
4	—	—	—	—	—

Engineering Drawing.—Students must attend at the Drawing Office of the University for eight hours weekly.

THIRD YEAR.

University Classes printed in ordinary type; Heriot-Watt College Classes in italics.

1 = Autumn Term; 2 = Spring Term; 3 = Summer Term.

9	Engineering 1	Engineering 1	Engineering 1	Engineering 1
10	Applied Mathematics 1 2	Applied Mathematics 1 2	<i>Machin Design Lecture</i> 1 2 3	Engineering 1
11	<i>Heat Engines Theory</i> 1 2 3	<i>Heat Engines Lecture</i> 1 2 3	<i>Heat Engines Lecture</i> 1 2 3	Applied Mathematics 1 2
12	—	—	—	<i>Heat Engines Lecture</i> 1 2 3
1	—	—	—	—
2	—	—	—	—
3	<i>Engineering Drawing</i> 1 2 3	Engineering Laboratory 1 2 3	<i>Engineering Drawing</i> 1 2 3	<i>Heat Engines Laboratory</i> 1 2 3
4	—	—	Engineering Laboratory 1 2 3	Experimental Engineering 1 2
5	—	—	—	—

Engineering Drawing.—Students must attend at the Drawing Office of the Heriot-Watt College for eight hours weekly.

ELECTRICAL ENGINEERING.

SECOND YEAR—Autumn and Spring Terms.

University Classes printed in ordinary type; Heriot-Watt College Classes in italics.

1 = Autumn Term; 2 = Spring Term.

Hour.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.
9	Engineering Lecture 1 2	Engineering Lecture 1 2	Engineering Lecture 1 2	Engineering Lecture 1 2	Engineering Lecture 1 2
10	<i>Mech. Eng. Lecture</i> 1 2	<i>Electrical Engineering Tutorial</i> 1 2	<i>Electrical Engineering Lecture</i> 1 2	<i>Mech. Eng. Lecture</i> 1 2	<i>Elec. Eng. Lecture</i> 1 2
11	Technical Mathematics 1 2	Technical Mathematics 1 2	Technical Mathematics 1 2	Technical Mathematics 1 2	Technical Mathematics 1 2
12	—	—	—	Engineering Drawing Lecture (Junior) 1 2	—

1	Mechanical Engineering Laboratory 1	Mechanical Engineering Tutorial 1	---	---
2	2	Electrical Engineering Laboratory 2	Engineering Laboratory 1 2	Engineering Laboratory 1 2
4				

Summer Term.

9	---	Heat Engines Lecture	Electrical Engineering	Heat Engines Lecture
10	Surveying Lecture	---	Surveying Lecture	Heat Engines Tutorial
11	Physics Lecture	Physics Tutorial	Physics Lecture	Surveying Lecture
12				Engineering Drawing Lecture (Junior).
1		---	---	Surveying Drawing Office
2	Surveying Field Work			
3		Heat Engines Laboratory	Electrical Engineering Laboratory	Physics Laboratory
3.30	---			
4				

Engineering Drawing.—Students must attend at the Drawing Office of the University for eight hours weekly (Autumn, Spring, and Summer Terms).

ELECTRICAL ENGINEERING—continued.

THIRD YEAR.

University Classes printed in ordinary type; Heriot-Watt College Classes in italics.

1 = Autumn Term; 2 = Spring Term; 3 = Summer Term.

Hour.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9	<i>Electrical Design Lecture</i> 1 2 3	—	<i>Electrical Engineering Lecture</i> 1 2 3	—	<i>Electrical Design Lecture</i> 1 2 3
10	Applied Mathematics 1 2	<i>Electrical Engineering Lecture</i> 1 2 3	Applied Mathematics 1 2	<i>Electrical Engineering Lecture</i> 1 2 3	Applied Mathematics 1 2
11	<i>Heat Engines Tutorial</i> 1 2	<i>Heat Engines</i> 1 2	<i>Heat Engines</i> 1 2	<i>Heat Engines</i> 1 2	<i>Heat Engines</i> 1 2
12	—	—	—	—	—
1	<i>Electrical Machine Design</i> 1 2 3	<i>Electrical Engineering Laboratory</i> 1 2 3	<i>Electrical Machine Design</i> 1 2 3	<i>Heat Engines Laboratory</i> 1 2	<i>Electrical Engineering Laboratory</i> 1 2 3
4					

CHEMISTRY.

DR DOBBIN and PROFESSOR WALKER.

Lecture Course.

The Class meets on Mondays, Wednesdays, and Fridays, from 10 to 11, during the three terms. For Tutorial work, which is obligatory, the Class may be divided into two sections, which will meet on Tuesdays or Thursdays.

The lectures are devoted to Elementary Inorganic Chemistry embracing the more important metallic and non-metallic elements and their chief compounds, together with an introduction to Chemical Theory. Special lectures are given to Engineering students during the Summer Term.

Laboratory Course.

This Course should be taken in conjunction with the Lecture Course. It meets for two hours twice a week during the three terms. The work will include simple inorganic preparations, the detection of the chief inorganic elements and compounds, the qualitative analysis of simple alloys, and an introduction to volumetric analysis.

MATHEMATICS.

E. M. HORSEBURGH, M.A., B.Sc., Assoc.M.Inst.C.E., *Lecturer.*

The Technical Classes (*(c)* and *(d)* p. 198) are specially for Engineering and Technological students. These Classes are also recognised as constituting a *Double Course* in Mathematics for the ordinary degree of M.A.

Mathematics (c), First Technical Course.—Autumn, Spring, and Summer Terms. The work of the Class includes :—Elementary Algebra, Trigonometry, Plane and Spherical (with special reference to Surveying and Geodesy), Elementary Co-ordinate Geometry and Graph Tracing, use of Graphic Methods, Introduction to the Differential and Integral Calculus ; simple practical applications of these subjects, chiefly from the engineer's point of view.

Mathematics (d), Second Technical Course.—Autumn and Spring Terms. The work of the Class includes :—Use of Graphic

Methods, Spherical Trigonometry (with reference to Geodesy and Navigation), Elementary Co-ordinate Geometry, Differential and Integral Calculus, Simple Differential Equations; practical applications of these subjects, chiefly from the engineer's point of view.

NATURAL PHILOSOPHY.

PROFESSOR BARKLA.

G. A. CARSE, M.A., D.Sc., *Lecturer.*

For Synopsis of Lecture and Laboratory Courses, see under FACULTY OF ARTS. The qualifying Course for students of Engineering is the Ordinary Natural Philosophy Course.

ENGINEERING.

PROFESSOR HUDSON BEARE.

During the first year of attendance at the University all Engineering students should attend the Introductory Course in Engineering, given in the Summer Term.

During the second year of attendance they should all attend the Junior Course during the Autumn and Spring Terms, and the Engineering Field Work during the Summer Term.

During the third year of attendance Civil Engineering students attend the Senior Course during the Autumn, Spring, and Summer Terms; Mechanical Engineering students attend the Senior Course during the Autumn Term only.

Introductory Course.

Summer Term.

Lectures.—Tuesday and Thursday, 10-11 A.M.

The following subjects will be dealt with in these lectures:—

The Materials of Construction.—Cast iron, wrought iron, steel, copper, aluminium, alloys, limes and cements, bricks, stones, timber—their origin, preparation, properties, and uses.

Junior Course.*Autumn and Spring Terms.*

Lectures and Tutorial Classes.—Monday, Tuesday, Wednesday, Thursday, and Friday, 9-10 A.M.

Laboratory Instruction. Wednesday and Friday, 2-4 P.M.

The following subjects will be dealt with in these lectures :—

Autumn Term.

Elementary Hydraulics.—Steady and unsteady motion, laws of flow through orifices, notches and mouth-pieces, laws of fluid friction, law of flow in pipes, effects of sudden enlargement and contraction, pressure on surfaces, centre of pressure, strength and stability of structures subjected to water pressure. Impact of water on vanes; reaction of jets; the Pelton wheel, water-wheels, overshot and breast wheels, the Pancelit wheel.

Friction.—Friction losses in sliding pairs, turning pairs, screw pairs and pivots; experiments to determine the value of the coefficient of friction under varying conditions of loading, velocity of rubbing, lubrication, etc. The mechanical efficiency of steam and other heat engines; brakes, and dynamometers.

Spring Term.

The Strength and Elasticity of Materials.—Elastic stress and strain, elastic limit and yield point, ductile strains, ultimate strength, effects of variation and repetition of stress, resilience and shock. Factors of safety, hardening and annealing effects, stresses due to temperature changes.

Struts and columns, the bending of long columns; formulæ of Euler, Gordon, Rankine, and others for strength of columns.

Theory of bending; simple bending, bending moments, and shearing forces; moments of inertia and of resistance of various sections, graphical methods; determination of stresses at any cross section of a beam, beams of uniform strength. Deflection of simple beams, relations between curvature, slope, and deflection; deflection and slope from bending moment diagrams. Built-in and continuous beams, theorem of three moments, graphical methods, resilience of beams, shearing, resilience and deflection due to shear. Reinforced concrete beams of rectangular cross section.

Compound stresses ; direct and bending stresses, eccentric loads, struts and ties with lateral loads, crane hooks, masonry seating for beam ends.

Torsion and shear ; stress and strain in pure torsion, relation to twisting effort, modulus of rigidity ; shafts of circular and square section. Combined twisting and bending, effect of end thrust.

Torsional resilience ; helical springs close coiled. Stresses in thin cylindrical shells ; riveted joints.

Engineering Field Work.

Summer Term.

Lectures.—Monday, Wednesday, 10-11 A.M. ; Friday, 11-12 A.M.

Practical Work in Field and Drawing Office Work.—Monday, Wednesday, 11 A.M. to 4 P.M. ; Friday, 12-4 P.M.

The subjects dealt with include Surveying with the chain and with angular instruments ; Levelling ; the Optical and Mechanical Principles, Tests and various Adjustments of Surveying and Levelling Instruments ; Setting out of Curves ; Triangulation and Tacheometry.

Note.—All Civil Engineering students who have the available time are strongly advised to repeat attendance on this Course during their third year of attendance at the University. For such students Advanced practical work in the field will be provided, including Plane-Table Work, etc. There will also be a short Course of Advanced Lectures for such students dealing with portions of the subject not overtaken in the regular Lecture Course.

Senior Course.

Autumn, Spring, and Summer Terms.

Lectures and Tutorial Class.—Monday, Tuesday, Wednesday, Thursday, and Friday, 9-10 A.M.

Laboratory Instruction.—Tuesday and Thursday, 2-4 P.M.

The following subjects will be dealt with in these lectures :—

Autumn Term

Advanced Strength of Materials.—Stresses and strains in thick cylinders; rotating rings and discs; open coiled helical springs; reinforced concrete beams and columns; whirling of shafts.

Hydraulics.—Laws of flow in channels and pipes; weirs and velocity meters. Turbines, outward flow, inward flow, and axial flow; form of guide and wheel vanes; losses due to frictional and other resistances; efficiency of turbines. Centrifugal pumps, efficiencies of such pumps, reciprocating pumps, slip, air vessels, diagrams of work done, variation of pressure due to inertia.

The accumulator, differential accumulators, intensifiers; hydraulic cranes, hydraulic presses, hydraulic engines, hydraulic forging presses.

Spring Term.

Waterworks.—Rainfall, methods of measurement, variation, losses by evaporation, etc., available rainfall, measurement of flow off a given catchment area. Storage of water and construction of reservoirs; earthen and masonry dams; service reservoirs. Purification of water, sand filter beds, mechanical filters; softening of hard waters. Construction of aqueducts and laying of pipes; cast-iron and steel pipes, their manufacture, and tests applied; pipe jointing.

Sewers and Sewage Disposal.—Volume and variation of flow, separation of rain water; determination of sizes of sewers, their construction, methods of ventilation, storm-water overflows, outfall works. Chemical treatment at the outfall works, settlement tanks, volume of sludge produced, disposal of sludge, sludge steamers, sludge presses, treatment of the effluent from the settlement tanks on sewage farms, degree of purification obtainable. Bacterial treatment, screening tanks, filtering media for bacteria beds; contact beds and their operation; percolation filters, determination of dimensions, open troughs and sprinklers of various forms, treatment of trade wastes.

Summer Term.

Railways and Tramways.—Permanent way; rails, chairs, and fastenings; sleepers and ballast. Embankments and cuttings, computation of volumes, methods of constructing and draining. Tunnels, method of driving and lining tunnels and shafts; deep level tunnels, excavation by use of Greathead and similar shields, sections of cast-iron lining. Stations, terminal and intermediate, general arrangement. Station roofs, various types used, their design and erection. Bridges, various types for road bridges, bridges over streets in towns and over rivers; live and dead loads.

Harbours and Breakwaters.—Motion of waves, tides and their action on coasts and channels, sea defences, improvement of tidal rivers and estuaries, quays, piers. Docks and deep water basins, dock walls, entrance locks, lock gates, machinery for opening and closing gates, dry docks. Breakwaters and their construction.

Experimental Engineering.

J. B. TODD, B.Sc., A.M.I.Mech.E., *Lecturer.*

Autumn and Spring Terms.

Friday, 4-5.

A special Course of twenty lectures is given during each Autumn and Spring Term on some branch of Experimental Investigation. The lectures are given once a week, on Friday afternoons, from 4-5.

A student is permitted to attend a Half-Course on payment of half the fee for a complete Course.

For Session 1914-15 the subject will be "The Constitution, Structure, and Properties of Metals and Alloys." In the Autumn Term the lectures will deal with Constitution and Structure—observations by eye and by microscope; thermal measurements; equilibrium diagrams and the phase rule; classification of alloys; binary alloys of aluminium, antimony, bismuth, copper, iron, lead, magnesium, manganese, nickel, silver, tin, and zinc; structural details and their modification by various causes; ternary alloys and more complex mixtures.

In the Spring Term the mechanical and other properties of metals will be studied—significance of data obtained from

mechanical tests ; effect of composition, temperature, and rate of cooling, upon the mechanical properties of alloys of the more useful metals ; structural phenomena which accompany mechanical distortion ; electrical and magnetic properties of metals ; corrosion.

Engineering Drawing.

W. HUME KERR, M.A., B.Sc., *Lecturer.*

The work of these Classes consists of Lectures and Practical Instruction in the Drawing Office. The Drawing Office will be open daily from 9 A.M. to 5 P.M., and on Saturdays from 9 A.M. to 1 P.M.

Each student is required to attend at least eight hours per week—the times of attendance to be arranged at the beginning of the term. Every student, however, is expected to devote additional time to Drawing Office work.

For Graduation purposes two full Courses (one Junior and one Senior) are prescribed. Each Course extends over three terms, as the whole scheme of work has been arranged to form a Six Term Course.

As the instruction given is not entirely with a view to examination, these Classes will also be found useful to those who propose to become Architects or Surveyors, or who desire to study Structural Design.

It will be possible to take the Classes of Engineering Field Work and Drawing during the same term, as the hours of attendance can be arranged so that the whole work of both Classes may be overtaken.

In each Class one Examination is held towards the end of each term. Marks are assigned for Class work, and these, along with the Examination Marks, determine the Class results.

Students should also bear in mind that drawings made in Class are to be produced at the time of the Degree Examinations.

JUNIOR COURSES—*Autumn Term.*

Lectures on Thursdays, at 12 noon.

Graphical Calculus.—Signs of Lines and Areas ; Addition and Multiplication of Vectors ; Powers and Roots ; Vector and Link Polygons ; Areas and Plane Figures ; Integration Polygon ; First

and Second Moments ; Centroids ; Moment of Inertia ; Rectification of Circular Arcs and Areas ; Curves of Hydraulic Mean Depth and Discharge.

Spring Term.

Lectures on Thursdays, at 12 noon.

Graphical Statics.—Assumed Framing and Funicular Polygon ; Moments of Forces ; Bending Moment and Shearing Force Diagrams for Fixed and Moving Loads ; Determination of Equivalent Loading on Railway Bridges ; Reciprocal Figures ; Stresses in Framed Structures, Roofs, and Bridges, with Dead and Live Loading ; Line of Resistance ; Theory of the Elastic Line ; Influence Lines

Summer Term.

Lectures on Thursdays, at 12 noon.

Projective Geometry.—Plans and Elevations ; Sections of Solids ; Interpenetration ; Development ; Isometric Projection.

Loci.—Geometrical Loci ; Point Paths in Mechanism ; Link Work ; Cams ; Curves of Velocity and Acceleration.

SENIOR COURSE—Autumn and Spring Terms.

Lectures on Monday, at 12 noon.

This Course is arranged to be as far as possible a progressive Course of Civil Engineering Design, in which the students will apply practically the instruction they receive in the lectures. It will include therefore the complete design throughout and the making of working drawings of the details of girders, of steel bridges and roofs, and of structures in masonry, timber, etc. Instruction will be given in inking and colouring and in the photographic methods of reproducing tracings, etc.

Each student will be required to design every detail of the several structures dealt with, to make complete dimensioned drawings, to prepare a full draft of his calculations, and to estimate the final weight of each structure as designed.

Private reading bearing on the Class work is prescribed, and one examination held in each term.

*Summer Term.**Lectures on Tuesday, at 12 noon.*

During this term the Classwork will include Building Construction, Design in Timber and Masonry, with details of Roofing, Slating, Plumbing, etc. The theory of the Arch will be applied to the Design of Arches in Masonry, Reinforced Concrete and Steel, when subject to moving loads ; and other advanced problems in design will be dealt with as time permits.

Engineering Laboratories.

The Engineering Laboratories are intended to provide systematic instruction in the experimental methods which serve for determining the numerical data employed in Engineering calculations, and to familiarise students with the strength and other physical properties of the chief materials used by Engineers. Such instruction is valuable for two reasons. In the first place, only those who have had practical acquaintance with experimental processes can judge of the limits of accuracy of numerical data derived from experiments ; and in the second place, engineers are frequently called upon to make special experiments for their own guidance, and in such cases a previous training in the art of experimental investigation and in the methods which have been successfully adopted by others will be found to be of the utmost value.

As the instruction in the laboratory is, to a large extent, individual, it is possible for students to enter at any period of the session. Advanced students, especially those who have already been engaged in practical work before entering the University, are encouraged to undertake original investigations on matters in relation to which Engineers still require experimental data.

A six months' Laboratory Course, with attendance during at least two whole days in the week, is a qualifying Course for the Final Bachelor of Science (Engineering) Examination.

Municipal Engineering.

The attention of students attending the Engineering Class, who propose to devote themselves to such work as falls within the scope of what is usually called Municipal or Sanitary

Engineering, is directed to the Course of Lectures on Sanitary Engineering and Building Construction, which has been specially arranged for candidates for Degrees in Public Health. For full details, see under Public Health, p. 350.

Heriot-Watt College.

MECHANICAL ENGINEERING.

PROFESSOR STANFIELD and STAFF.

Course on Mechanics and Mechanism.

Second Year—Autumn Term.

Lectures.—Monday and Thursday, 10-11.

Tutorial.—Tuesday, 11-12, or 1-2.

Laboratory.—Monday, 1-3.

This Course is intended for students who are qualifying for the degree of B.Sc. in Civil, Mechanical, or Electrical Engineering.

Dynamics of Machines.—Engineers' units of force, work, power, torque, and moment of inertia ; problems in linear and angular acceleration ; velocity and acceleration diagrams ; forces to accelerate the moving parts of machines ; relation between crank effort, energy stored in flywheel, and fluctuation of speed ; balancing of rotating and reciprocating masses ; governors.

Kinematics of Machines.—Characteristics of a machine ; a mechanism, and a structure ; instantaneous centres ; relative motion and acceleration of parts of various important mechanisms ; rolling contact ; toothed wheels with cycloidal or involute teeth ; epicyclic trains ; cams.

Course on Heat Engines.

Second Year—Summer Term.

Lectures.—Tuesday, Thursday, and Friday, 9-10.

Tutorial.—Friday, 10-11.

Laboratory.—Tuesday, 1-3.30.

This Course is intended for students who are qualifying for the degree of B.Sc. in Civil and Mechanical, or Electrical Engineering.

Syllabus.

Properties of steam and gases; the temperature-entropy diagram; the ideal steam engine; the thermal performance of the steam engine in practice; efficiency-ratio of steam engines; losses connected with steam engines; means of reducing waste; compound and triple expansion engines; determination of size of cylinders; types of engines.

Generation of steam in boilers; types and construction of boilers; combustion of fuel; calorific value of fuels; efficiency of boilers; feed-heaters; super-heaters; feed-water purifiers and softeners; injectors and feed-pumps.

Mechanism of engines; valves; slide valve gears and valve diagrams; drop valve gears; governors; fly wheels; balancing of revolving and reciprocating masses.

Steam turbines; general principles and details of construction.

Condensation of steam; jet and surface condensers; air-pumps; circulating pumps; cooling of condensing water.

Internal combustion engines; general principles and cycles of operation; gas used; pressure and suction gas producers; Mond gas; efficiency of gas and oil engines; details of construction of ordinary gas and oil engines.

Testing of engines and boilers; brake horse-power; dynamometers; electrical methods of measuring power; indicated horse-power; indicators and indicator diagrams; measurement of moisture in steam; steam and fuel consumption; evaporative power of boilers; calorific value of gaseous and liquid fuels; flue gas analysis; gas and oil engine tests.

**Course on the Theory and Practice of Steam,
Gas, and Oil Engines.**

Third Year—Autumn, Spring, and Summer Terms.

Lectures.—Tuesday, Wednesday, Thursday, and Friday, 11-12.

Tutorial.—Monday, 11-12.

Laboratory.—Friday, 1-4.

This Course is intended for students who are qualifying for the degree of B.Sc. in Mechanical or Electrical Engineering.

Mechanical Engineering students take it for the three terms, Electrical Engineering students for the first two terms only.

Thermodynamics.—Theory of the steam-engine ; calculation of internal and external energy ; thermal efficiency ; properties and laws of steam and permanent gases ; efficiency of perfect heat-engine ; calculation of density of steam ; entropy ; efficiency according to the Rankine cycle ; cylinder condensation ; super-heating ; compounding.

Engine and Boiler Testing.—Calorific value of fuels ; calorimeters ; flue gas analysis ; radiation and other losses in boilers ; heat balance-sheet ; indicators and indicator diagrams ; determination of moisture in steam ; steam calorimeters ; effect of jackets ; Willans' law ; brakes ; testing indicators and gauges.

Steam Engines.—Various forms ; high-speed engines ; types of compound engines ; computation of size for a given horsepower ; condensers ; theory and construction of steam turbines.

Boilers.—Various types — economical combustion of fuel ; mechanical stokers ; grate and heating surfaces ; evaporative power ; economisers and feed-heaters ; injectors ; boiler inspection ; natural, forced, and induced draught ; superheaters ; boiler fittings ; non-conducting compositions for boilers and steam-pipes ; steam-traps.

Gas and Petroleum Engines.—The different cycles of operations ; various modern forms ; Diesel engine ; motor car engines ; methods of igniting and governing ; scavenging principle ; testing gas and oil engines ; gas and oil calorimeters ; vaporisation and flash-points of petroleum ; efficiency of gas and oil engines ; producer gas, gas producers ; blast-furnace gas for motive power ; starting gear.

Dynamics of Steam and other Engines. —Crank-effort diagrams ; inertia forces. Fluctuation of velocity ; fly-wheels ; velocity curves. The slide valve ; valve diagrams. Link motions ; Corliss and drop-valve gears. Governors, their design and construction. Balancing of Engines.

During the above Course students will carry out complete engine and boiler tests with the experimental engines and boilers ; also gas and oil engine tests, etc.

Course on Machine Design.*Third Year—Three Terms.*

Lecture.—Thursday, 10-11.

Drawing.—Monday and Wednesday, 1-5.

This Course is intended for students who are qualifying for the degree of B.Sc. in Mechanical Engineering.

More advanced work in connection with Machine Design will be taken up. Specifications of boilers, engines, pumps, machine tools, etc., will be submitted, and students will be required to produce designs to them.

Transmission of power by gearing belts and ropes ; helical and screw gearing ; connection of non-parallel shafts ; engine details ; piston and connecting rods, cylinders, valves, etc. ; the balancing of engines, marine and locomotive ; foundations and the erection of shafting and machinery ; boilers and boiler fittings ; steam piping ; hydraulic machinery.

It is intended to take up the entire design of some form of machine or prime mover in each year. The work of these Classes will be arranged so as to form a progressive Course of Engineering Design, the students applying practically in the Drawing Office the instruction given in the lectures.

ELECTRICAL ENGINEERING.

PROFESSOR BAILY and STAFF.

Elementary Electrical Engineering.*Second Year—Spring Term.*

Lectures.—Monday, Tuesday, and Thursday, 10-11.

Tutorial Class.—Wednesday, 10-11.

Laboratory Class.—Tuesday, 2-4.

This Course is intended for students who are qualifying for the degree of B.Sc. in Civil, Mechanical, or Electrical Engineering.

Syllabus.

Units employed in Electrical Engineering and their relation to mechanical and thermal units ; instruments for measuring

current and pressure ; resistance, carrying capacity, and volt drop in cables ; construction of cables ; insulating materials ; switches, fuses, and mechanical protection of cables ; supply meters.

Accumulators, construction and use ; glow lamps and arc lamps, efficiency and construction ; methods of lighting ; calculation of illumination.

The theory and construction of direct current dynamos and motors ; the properties of shunt, series, and compound-wound machines ; the starting and speed regulating of motors, the limits of output, continuous and intermittent rating.

Elementary principles of alternating currents ; impedance of a circuit ; power factor ; alternators and transformers ; polyphase currents ; induction motors, construction, properties, and methods of control.

Summer Term.

Lecture.—Wednesday, 9-10.

Laboratory.—Wednesday, 1-4.

This Course is intended for students who are qualifying for the degree of B.Sc. in Electrical Engineering.

Syllabus.

The testing of dynamos and motors, calculation of efficiency and determination of properties from characteristic curves. Theory of alternating currents, use of vectors, compounding of vectorial quantities, calculation of impedance, power factor, inductance, and reactance Testing of alternating current machinery and apparatus.

Electricity and Magnetism.

MR W. WATSON, M.A., B.Sc.

Second Year Course—Summer Term.

Lectures.—Monday, Wednesday, Thursday, 11-12.

Tutorial.—Tuesday, 11-12.

Laboratory.—Thursday, 1-4.

This Course is intended for students who are qualifying for the degree of B.Sc. in Electrical Engineering.

Syllabus.

The electro-magnetic system of units; galvanometers; measurement of resistance of solids and liquids; measurement of current and electro-motive force; electrical standards; electrolysis; batteries; thermo-electricity; magnetic theory and laws of magnetic circuit; magnetic properties of materials; self and mutual induction; Lenz' Law; theory of induced currents; ballistic galvanometer; induction coils; laws and theory of electro-statics; the electrometer; action and properties of the dielectric; theory of potential; influence machines; electrical discharge.

Third Year Course in Electrical Engineering.

The Third Year Course is intended only for those students who are qualifying for the degree of B.Sc. in Electrical Engineering. Two sets of lectures are given concurrently through the session, one on general theory and the technical applications of electricity, the other on the theory and design of electrical machines. Students will work in the Laboratory for two afternoons in each week, and two afternoons in the Drawing Office.

Lectures.—Monday, Wednesday, and Friday, 9-10; Tuesday and Thursday, 10-11.

Laboratory.—Tuesday and Friday, 1-4.

Drawing Office.—Monday and Wednesday, 1-4.

General Theory and Technical Applications.*Autumn Term.*

The fundamental standards of electrical measurements, absolute and relative measurement, accuracy and probable error, varieties of error. Deflection and null methods. Determination of constants and equations to curves, method of least squares, graphical differentiation and integration. Sensibility of instruments, the pre-determination of accuracy in an experiment. Measurement of current, potential difference, and resistance over wide range. Standards and methods of measurement in the photometry of lamps.

The general theory of alternating currents ; circuits with self-induction and capacity, non-sinusoidal waves, Fourier's theorem. Single-phase instruments, both standard and commercial, supply meters. Theory of alternators, parallel running ; synchronous motors, regulation and power factor ; synchronising apparatus ; phase swinging in systems with synchronous motors.

Theory of polyphase currents, mesh and star connections, relation of current and E.M.F. ; power and power factor of polyphase circuits, wattmeters and supply meters. Transformers on polyphase circuits. Circuits with earthed centre and unbalanced loads. Polyphase alternators.

Spring Term.

Induction motors ; circle diagram, methods of starting and control, speed variation, combination in cascade ; single-phase induction motors.

Rotary converters and motor converters, ratio of conversion, methods of regulation, starting and parallel running.

Commutator motors, theory of simple and compensated series, repulsion and compensated repulsion motors, vector diagrams, speed and load characteristics, methods of control.

Systems of distributing electric current ; direct current constant potential three-wire system ; constant current system ; alternating current transformer systems — single-, two-, and three-phase.

The design of central stations and sub-stations ; the influence of load factor on the design of the station and cost of production ; linking of stations ; switch-boards for low and high pressure.

Electric cables, design and methods of laying ; capacity and dielectric strength of cables ; design of feeders and networks ; testing of cables. Overhead lines for extra high pressure, insulators, static discharge, protection from lightning, strain on posts.

Summer Term.

Applications of electricity, combinations of motors with machinery, variation and control of speed, fly-wheel equalisers.

Electric traction, calculation of tractive effort, friction of track, acceleration and deceleration ; design of motors for heavy traction

and for tramcars ; controllers and brakes ; alternating current motors. Systems of distribution of current, third rail, overhead, slot, and surface contact ; construction of track and electric lines. Central stations for traction.

Telegraphy, the instruments and connections and in single needle, Morse simplex, differential and bridge duplex, quadruplex, and high-speed automatic working ; repeater stations. Construction of land lines, capacity of aerial and underground conductors.

Telephony, the instruments, switch-boards, and connections, used in simple systems ; systems for towns ; grouping of exchanges ; trunk connections. Influence of capacity and resistance ; design of cables and overhead wires ; loading of cables.

Wireless telegraphy, general theory of the methods ; aerials, transmitters, and receivers ; tuning of circuits ; the effect of close and loose coupling ; influence of atmospheric conditions.

Wireless telephony, the sensitive arc, method of production and transmission of telephonic signals ; receivers.

Electrical Machine Design.

Autumn Term.

Magnetic properties of iron and steel used for the magnetic circuits of dynamo-electric machinery, permeability curves, alloyed iron ; calculation of losses due to hysteresis and eddy currents. The magnet circuit in general, graphical methods, determination of ideal pole arc ; ampere turns for air-gap, teeth, pole cores, and yoke ; leakage coefficient.

Design of direct current machines, output coefficient ; determination of armature winding, types of winding, rules for connecting, use of equalising rings ; armature reaction, compensating winding ; sector voltage ; design of magnet coils, losses, heating, and efficiency ; commutation, fundamental equations, properties of the carbon brush, self and mutual induction of short-circuited coils, reactance voltage, calculation of commutating poles and windings ; design of turbine dynamos, variable speed and totally enclosed motors, motors for intermittent rating, low voltage and unipolar dynamos.

Spring Term.

Design of static transformers, single and polyphase, core and shell types ; design for given no-load losses, for minimum total

losses, equations of cost ; determination of no-load and short-circuit currents, regulation, methods of insulating and cooling.

Design of alternators and synchronous motors for low and high speeds ; armature reaction, regulation and efficiency ; rotary converters, number of phases, heating, commutation, methods of compounding, split-pole converter.

Design of induction motors, calculation of stator winding, magnetic circuit, no-load and short-circuit currents ; squirrel cage and wound rotors, determination of power factor, starting and maximum torque.

Summer Term.

This Term will be occupied in the design of special types of machines to complete specifications such as are most commonly met with in commercial work.

In the Drawing and Tutorial Classes held in connection with these lectures the students individually work out in detail, and draw, complete designs of the more important types of machines, each student making several finished designs during the session.

APPLIED MATHEMATICS.

C. G. KNOTT, D.Sc., *Lecturer.*

The Advanced Science Course on Applied Mathematics, of fifty lectures, is adapted for Engineering students. In the treatment of the subject the simpler processes only of the differential and integral calculus will be used. The Course will include the Dynamics, Kinematics, Kinetics, and Statics, of particles, rigid and deformable solids, flexible cords, and fluids.

Books recommended.—Rankine's *Applied Mechanics* ; Worthington's *Dynamics of Rotation* ; Crabtree's *Spinning Tops and Gyroscopic Motion* ; certain sections of Gray's *Dynamics*.

PHYSICAL APPLICATIONS OF QUATERNION OR VECTOR ANALYSIS.

C. G. KNOTT, D.Sc., *Lecturer on Applied Mathematics.*

This Summer Class will be found useful to Engineering students, especially those who purpose studying Electrical Science. See outlines of lectures under FACULTY OF ARTS.

GEOLOGY AND MINERALOGY.

PROFESSOR JEHU.

For Synopsis of Lectures, see Course C, under PURE SCIENCE.

DEPARTMENT OF PUBLIC HEALTH.**LABORATORY WORK.**

PROFESSOR HUNTER STEWART.

(I) Chemical and Physical Work.

AIR.—Temperature, Maximum and Minimum Thermometers—Pressure—Reading of Barometer, and correction for Elevation and Temperature—Moisture—Dew Point by Daniell's Hygrometer and Wet and Dry Bulb Thermometers—Determination of Absolute and Relative Humidity—Quantitative Determination of Carbonic Acid.

SOIL.—Determination of Water Capacity—Porosity and Permeability of Sand and Loamy Soil—Determination of Ammonia and Organic Nitrogen in Soil, and of Carbonic Acid in Ground Air—Use of Earth Thermometers.

WATER.—Total Solid Residue and Quantitative Estimation of Lime, Magnesia, and Sulphuric Acid in a Water Residue—Chlorides—Hardness—Lead in Water (colorimetrically)—Organic Matter in terms of "Albuminoid Ammonia," Organic Carbon and Nitrogen, and as "Oxygen required"—Nitrates and Nitrites. Oxygen dissolved.

Sewage.—Composition of Sewage and of Effluents from Purification Works.

FOODS.—*Cereals, etc.*—Estimation of Albuminoids by Kjeldahl's Method, Fat by Extraction, Starch by conversion into Sugar.

Milk, Butter and Margarine, Tea, Coffee and Cocoa, Wine, Beer, and Lime Juice, etc.

DISINFECTANTS.—Estimation of available Chlorine in Bleaching Powder—Determination of Comparative Value of different Disinfectants by lethal action on Microbes.

VENTILATION.—Determination of the amount of Carbonic Acid and of moisture in the air of an occupied room.

During this part of the Course, Laboratory Lectures are given, when the rationale of the methods and the interpretation of the results are discussed.

(II) Bacteriological Work.

The subject of the Laboratory Lectures during this part of the Course consists of a consideration of:—

The Morphology and Classification of the Micro-organisms—Sterilization by Dry and Moist Heat—Disinfection—Methods of Cultivation—Methods of obtaining Pure Cultures in Solid and Liquid Media—Anærobic Micro-organisms, and the Methods for their Culture—Bacterial Products, Ptomaines and Antitoxins—Micro-organisms in Water, Air, and Soil—Removal of Micro-organisms from Water (1) on the large scale by Sand Filtration—Construction and working of Filter Beds—Theory of Sand Filtration—(2) on the small scale by Pasteur-Chamberland, Berkefeld, and other Filters—Micro-organisms in Milk—Sterilization of Milk on small and large scale—Pasteurization of Milk.

Practical work by each worker—Sterilizing all glass apparatus, *e.g.* tubes, dishes, pipettes, etc.

Preparation in all stages of the following Culture Media—Nutrient Broth, Jelly, and Agar Agar, Blood Serum, Potato Gelatine, Worts Gelatine, Glycerine Agar, Potatoes, etc.

From a mixture of several Micro-organisms to get a pure Culture of *one*.

Cultivation, staining, and microscopical examination of:—

Mould Fungi.—Penicillium—Aspergillus—Mucor.

Yeast Fungi.—Yeast—Mycoderma Vini.

Fission Fungi.—The ordinary bacteria found in Air, Water, Soil, or Milk: *e.g.*, Bacillus subtilis, Mycoides, Megaterium, Proteus, Lactic Acid, Prodigiosus, Micrococcus aurantiacus, Ureæ, etc. ; and also the following pathogenic forms—Tubercle, Diphtheria, Anthrax, Typhoid, Tetanus, Cholera, Plague, Coli communis, Enteritidis, Malignant cedema, Symptomatic Anthrax, Streptococcus pyogenes.

Bacteriological examination in cases of Suspected Infectious disease—

- (1) *In Man.*—Tubercle, Diphtheria, Typhoid Fever, Plague, Cholera, etc.
- (2) *In Lower Animals.*—Tubercle, Anthrax, Symptomatic Anthrax, etc.

Cultivation of Micro-organisms in Air, in Soil, and in Water.

PHYSICS.

PROFESSOR BARKLA and G. A. CARSE, M.A., D.Sc.

A practical Course of 60 hours in the following :—

(1) *Properties of Solids and Fluids.*—Specific gravity, elasticity as exhibited under tension, torsion and flexure ; laws of liquid pressure ; surface tension ; viscosity of liquids ; variation of volume with pressure for gases and vapours.

(2) *Heat.*—Corrections of thermometers ; variation of the volume of a gas with temperature ; pressure of vapour in the atmosphere ; boiling points ; specific heat ; latent heat.

(3) *Light.*—Focal lengths and magnifying powers of lenses and systems of lenses ; refractive indices of solids and liquids ; photometry ; laws of polarisation of light ; rotation of the plane of polarisation ; spectrum analysis.

(4) *Electricity.*—Resistance of wires, electrolytes, galvanometers and batteries ; determination of strength of current.

GEOLOGY.

PROFESSOR JEHU.

For Synopsis of Courses, see under PURE SCIENCE (Courses A or C).

PUBLIC HEALTH AND SANITARY SCIENCE.

PROFESSOR HUNTER STEWART.

1. Sanitary Law, specially the Public Health Act (Scotland), 1897—The English Acts—Notification of Infectious Diseases—Housing of the Working Classes—Factories—Cowsheds and Dairies—and Nuisance removal Acts, etc., Bye-laws.

2. Vital Statistics—Census, how determined—Death Rates, crude, corrected and standard—Birth and Marriage Rates—Life Tables—Zymotic Death Rate—Age Rate, Case Mortality—Variations in Case Incidence and Case Mortality—Value of Vital Statistics in Public Health Work—Mortality as affected by Occupation—Sickness Rates, etc.

3. *Epidemiology*.—Medicine in relation to Public Health—Immunity—Prophylaxis—Vaccination—Geographical distribution and etiology of the infectious diseases—Diseases of Animals communicable to man—Food Poisoning—Climates as determined by prevalent winds, temperature, moisture, altitude, and soil—Tropical, Temperate, and Arctic Climates.

4. Practical Sanitation—Water Supplies—Infectious Diseases Hospitals—Disinfection of clothing, dwellings, and discharges from sick—Slaughter-houses—Meat inspection—Ventilation—Sewage disposal—Hygiene of Schools—Disposal of the dead.

SANITARY ENGINEERING, BUILDING CONSTRUCTION, ETC.

PROFESSOR HUDSON BEARE.

Spring Term.

Monday, Wednesday, and Friday, 11-12.

- (1) Site, environment, and construction of dwellings, sanitary fittings in houses.
- (2) Water supply and distribution.
- (3) Collection, treatment and disposal of sewage and other refuse.
- (4) Air Supply, Ventilation, and Warming.
- (5) Nature, strength, and fitness of structural materials employed in sanitary works.
- (6) Design of sanitary works, municipal and domestic.

INSTRUCTION IN MENSURATION AND DRAWING.

W. HUME KERR, M.A., B.Sc., *Lecturer.*

Autumn Term.

Tuesday and Friday, 10-1.

The Course will include the following subjects:—Scales, their Construction and Uses—Estimation of Areas and Volumes—

Elements of Plane and Solid Geometry, and their application to the making of Structural Drawings from Models and Figured Sketches—The use of the Slide Rule and other Calculating Instruments—Plotting of Land Surveys and Sections—Elementary Building Construction.

This Class may be attended either during the Winter or the Summer session. A minimum attendance of 60 hours is required during the session. The drawing office is open daily from 10 A.M. to 4 P.M. There is one class examination.

CLINICAL INSTRUCTION

Regarding Fevers and Infectious Diseases, during Three Months, in a Recognised Hospital.

DEPARTMENT OF AGRICULTURE.

MATHEMATICS.

PROFESSOR WHITTAKER and LECTURERS

As for M.A. See FACULTY OF ARTS

ZOOLOGY.

PROFESSOR EWART.

See under PURE SCIENCE.

BOTANY.

PROFESSOR BALFOUR.

See under PURE SCIENCE.

NATURAL PHILOSOPHY.

PROFESSOR BARKLA and G. A. CARSE, M.A., D.Sc.

For Lecture and Laboratory Courses, see under FACULTY OF ARTS.

The Qualifying Course for students of Agriculture is the Ordinary Natural Philosophy Course, including lectures and practical work.

CHEMISTRY.

PROFESSOR WALKER and LECTURERS.

For Classes, see under PURE SCIENCE, First Year's Lecture and Laboratory Courses.

AGRICULTURE AND RURAL ECONOMY.

PROFESSOR WALLACE.

Definition of Agriculture.—Aid given by the Allied Sciences.

Surface Geology.—Formation and Classification of Soils—Properties. Organic Nitrogen. Indications of Quality—Management—Mixing or Top-dressing—Claying—Marling—Liming—Clay-burning. The Effect of Cultivation and the Growth of Plants.

Drainage.—Its practice and advantages—Irrigation.

Implements and Machines.—Construction and management.

Steam Cultivation.—Advantages and disadvantages. Development of the Land Digger and the Farm Motor.

Motive Powers employed on the Farm.—1st, Man ; 2nd, Horse ; 3rd, the Mechanical Powers—Water, Wind, and Steam, etc.

Farm Servants.—Labour and Wages—Day-work and Piece-work. Detailed and total costs of Horse and Hand Labour.

Importance of Rotations of Crops.—Different Rotations, and reasons why they are adopted—Systems of Farming.

Farm Crops (Grain, Root, Forage, and Hay Crops).—Selection and Growth—Prevention of insect injuries and diseases.

Grasses and other Pasture Plants.—Character and habits—Detection of Adulterations—Protective means in buying seeds.

The Management of Permanent Pasture.—Proper methods of making new pasture—its after-treatment.

Weeds in Pastures, and means of destroying them.

Silage and the System of Ensilage.—Its advantages, etc.

Manures.—Farm-yard Manure. Special manures and so-called “artificial.” Liquid Manure and Town Sewage.

Buildings and Fences—The proper construction of fences—Byres, Cattle-sheds, Stables, etc.—Covered Yards—Ventilation—Drainage

Live Stock (embracing Cattle, Pigs, Horses, Sheep, and Dogs).

Dairying.—Dairy Stock and their management—the treatment of milk, and its sale or manufacture into Cheese, Butter, etc.

Textbooks.—Wallace's *Farm Live Stock of Great Britain*, M'Connell's *Note-Book of Agricultural Facts and Figures* and *The Complete Farmer*, Hall's *Soils and their Properties* and *Manures and Fertilisers*, Board of Agriculture Leaflets.

Extra class meetings will be devoted to Practical and Tutorial Instruction.

Periodical visits will be made to farms on Saturdays. A medal may be given for the best report on these excursions.

Advanced and Tutorial Agriculture.

PROFESSOR WALLACE and MR WATSON.

The Principles of Breeding.—Theories of heredity—variation—inheritance. Mendel's law. Statistical study of heredity. Practical application of the laws of heredity in animal breeding. Systems of breeding—inbreeding, line-breeding, and systematic crossing.

Live Stock—Horses.—Characteristic of principal market-types of horses—heavy and light draught, harness, and saddle. Various pure breeds used for the production of these classes and their special characteristics. Feeding and management.

Cattle.—Classification of cattle as beef, dual-purpose, and dairy. Possibility of combining beef and dairy characteristics. Value of milk records. Classification of British breeds and the special characteristics of each. History of the shorthorn. Various methods of rearing. Rations for dairy cows, for young stock, and for fattening steers.

Sheep.—Classification of British breeds. Valuable characteristics of wool. The most suitable breeds and crosses for the production of fat lambs, hoggets, and wether mutton respectively. General management of sheep—hill and lowland. Feeding fat lambs, hoggs, and wethers.

Pigs.—British breeds. Breeding, rearing, and feeding.

Stock Judging.—Practical work with stock will be taken up

in town stables and byres, at the stock markets, Gorgie, and on farm excursions.

Farm Management.—The use of land. Natural and economic conditions determining the most profitable use of land as forest, pasture, arable, market garden, or orchard. The relative economy of large and small holdings under different conditions.

Landlords' capital. Profitable and unprofitable investment in buildings, fences, drainage, etc.

Systems of land tenure. Tenancy and occupying ownership.

Tenants' capital. Its profitable application. Conditions determining the most profitable pitch of fertility.

Typical systems of farming in Britain and their adaptation to local conditions.

The degree of intensiveness with regard to hand and horse labour. Inter-relationships between hand labour and machines.

The cost of hand and horse labour. The costs of the common operations of tillage. The costs of production and the financial returns of the various grain, root, and forage crops. Profits from the various branches of the live stock industry, and the land and labour conditions under which each may be economically carried on. Conditions for successful dairying. Cost of producing milk. Relative returns from fresh milk, butter, and cheese.

Capitalisation, stocking, income and expenditure of typical British farms.

Methods for the checking of results and profits.

Agricultural co-operation.

Twenty extra class meetings will be devoted to Practical Demonstration Work.

A series of eight farm excursions will be made during the session.

THE GARTON LECTURES ON COLONIAL AND INDIAN AGRICULTURE.

(Free to present and last year's Students of Agriculture.)

PROFESSOR WALLACE.

Session 1913-14, 20 Lectures.

India and Ceylon.

Introduction.—General view of agriculture of India, including the main features of the Presidencies and other great political

divisions—Bombay, Madras, Central and North-West Provinces, Punjab, Bengal, Assam, Burmah, and Ceylon—with special reference to geology, soil, chief products, irrigation, climate, peoples, and famines.

Tillage Implements.—Indian ploughs, native harrows, hoes, seed-drills, and hand implements. European implements.

Cultivation and Crops.—Rotations and mixtures. Tillage. Seed and sowing. Harvesting and preparation for market. Diseases and injuries. Classification of crops into Cereals, Pulses, Oil Seeds, Fibre, Fodder and miscellaneous crops. Grasses of India and their cultivation—Grass—Cutting—Hay-making—Silage.

Irrigation.—Land and other conditions suitable and unsuitable for Irrigation. Advantages of Canal, Well, and Tank (Lake, etc.) irrigation. Quantity of water necessary. Water lifting appliances.

Manures.—Village refuse, cattle manure (partly used for fuel), ashes, bones, fish manures, saltpetre, green manure.

Live Stock.—Characteristics of Indian cattle—Description of the numerous breeds value as working and milch cattle. Buffaloes—their general characteristics and special milking qualities. Horses and Mules. Goats and Sheep. Common diseases.

Egypt.

Introduction.—Physical features—soil, climate, population. The fellahin or cultivating class.

Irrigation.—The rise and overflow of the Nile—The ancient basin system of Upper Egypt—The Indian canal system introduced into Lower Egypt—Drainage—Washing salt land.

Manure.—Pigeons' Dung—Sabakh (crude saltpetre).

Chief Crops.—Divided into Winter, Summer, and Autumn Crops. Special reference to Cotton, Sugar-cane, Barsim (Clover), Wheat, Barley, Maize—Rotations and methods of cultivation.

South Africa.

Political Divisions.—Cape Colony, Natal, the Transvaal, Orange River Colony, Rhodesia; their geological, orographical, and land surface features.

Population.—British, Dutch, other white nationalities, black races, labour and wages.

Cultivation.—Rotations—Manures—Field Crops—Possible development by means of irrigation—Good and bad methods of irrigation.

Viticulture and Fruit-growing.—Production and exportation of Grapes, Oranges, and various tropical and semi-tropical fruits—The Wine Industry.

Live Stock.—The Wild Game—Cattle—Horses and Mules—Sheep and Goats—Ostriches, breeding and management—Dairying—Diseases, including Horse-sickness, Anthrax, Rinder-pest, Redwater (Texas Fever), Scab in Sheep and Goats—Internal Parasites.

The Dominion of Canada.

Eastern Provinces.—Ontario, Quebec, New Brunswick, Nova Scotia, Prince Edward Island (the garden of Canada)—The Leading Features of the country—The Agricultural Practices of these older settled areas—The Dairy Industry—Exports of Cheese and Butter.

Manitoba and the North-West Territories.—System of Government Survey into Townships of six miles square—Wheat-growing on the Prairies—Elevator System of handling Grain—Cattle Ranching—Sheep Breeding and Feeding—The Advantages of Mixed Farming—The Scotch Crofter Settlements.

British Columbia.—Its Grazing Capabilities—Its Agricultural Resources, with special reference to the Peace River District.

Government Aid to Agriculture.—The Experimental and Demonstration Farms—Agricultural Education, with special reference to the Guelph Agricultural College, Ontario.

Australasia.

The Distinctive Features (orographical, geological, etc.) of the various Colonies—New South Wales, Victoria, South Australia, Queensland, Western Australia, New Zealand, and Tasmania.

Crop Cultivation.—Rotations—Cereals—Forage—Potatoes—Diseases, Fungoid and Insect Attacks, and the Injurious Influences of Climate—Grape-growing—The Wine Industry—Trade with Europe.

Pasture.—Good Native Grasses—Salt Bushes—Injury to Sheep and Wool from spear grass and bur clover (*Medicago denticulata*).

Water Supply.—Irrigation (especially in Victoria)—Artesian Wells (chiefly in Queensland)—Rainfall—Periodic Droughts—Desert Country.

Reclamation of Land.—"Ring-barking" Forest Areas—"Bush-falling"—"Fern-crushing"—Drainage of Swamps—Burning off withered growths and the Sowing of Grass and other Pasture Seeds—Thistles on Newly cleared Land—Fencing.

Live-Stock Industry.—Sheep—the Merino, Longwools (Lincoln, English and Border Leicesters, Romney or Kent sheep)—Crosses as Frozen-meat Producers—The Wool Trade.

Horses.—Breeding and Management—Their value as army remounts in India and South Africa.

Cattle.—British Breeds imported into the Colonies—Short-horn, Polled Angus, Hereford, Devon, Kerry, and Ayrshire, etc.—Kiama Milking Breed.

Dairying.—Rapid Development in the Colonies—Export of Butter and Cheese—Encouragement given and control exercised by Government over Exports—Cold Storage.

Agricultural Colleges.—At Christchurch, Roseworthy, Dookie, Longernong, and Hawkesbury—Systems of Management—Successful results.

The Smaller Crown Colonies.

Main Points of Interest in.—West India Islands, British Guiana, the Straits Settlements, Uganda, and other African Continental Possessions and Islands—Islands in the South Atlantic and Pacific Ocean.

Miscellaneous.—Relations of the Agriculture of the Colonies and India to that of the Mother Country—Exports of Agricultural Produce, etc., from the Colonies and India, with special reference to Earth Phosphates, Bones, and other Manures, Frozen Meat, Cotton, Grain (including Wheat), Tea and Coffee, Sugar, Fresh Fruits, Spices, etc.

AGRICULTURAL CHEMISTRY.

(COLLEGE OF AGRICULTURE.)

ALEXANDER LAUDER, D.Sc., *Lecturer.*

1. *Plants.*—Composition of plants—essential constituents of plant food—sources of plant food—specific functions of the various

constituents. The more important proximate constituents of plants—proteins and carbohydrates, fats and oils, amides—their composition and properties. Enzymes and their action.

2. *Soils*.—Origin and formation. Constitution of the soil—mineral matter—calcium carbonate and calcium phosphate—soil water—organic matter. Carbon and nitrogen cycles in the soil—the micro-organisms of the soil—effects of partial sterilisation. Composition of drainage waters—lysimetry—absorption of salts by the soil. Soil analysis and its interpretation.

3. *Manures*.—Their classification, composition, and characteristics—specific action and suitability for different soils and crops—economic use, and the principles regulating their application—methods of conducting manurial experiments—experimental error of field experiments—analysis and investigation of manures—valuation of manures, and of unexhausted fertility.

4. *Crops*.—Their composition and classification—fodder crops, their relative value as food—their nutritive value, preservation, and digestibility—theory of rotations—crop residues and their relation to the fertility of the soil.

5. *Animal Nutrition*.—Energy requirements of animal for maintenance, growth, and repair—composition of feeding stuffs—digestion, absorption, and assimilation—general functions of foods—maintenance and production rations—"availability" of feeding stuffs—energy used in digestion—specific functions of the various constituents. Valuation of feeding stuffs—manurial value—protein ratio—starch equivalents—rations for different classes of stock.

6. *Dairy Produce*.—Production of milk—composition—factors which affect the variation in composition—effect of feeding on yield and composition. Sources of contamination—preventive measures. Methods adopted for the preservation of milk. Analysis of milk. The more important milk products.

7. *Miscellaneous Chemical Substances used in Agriculture*.—Disinfectants—sheep dips—preservatives, etc.

Practical Course.

1. *Soils*.—Methods of sampling—mechanical analysis—qualitative and quantitative analysis—absorption of salts.

2. *Fertilisers and Manures*.—Qualitative and quantitative analysis.

3. *Food Stuffs*. Examination for impurities—determination of proximate constituents.

4. *Dairy Produce*.—Qualitative and quantitative examination.

GEOLOGY.

PROFESSOR JEHU.

For Synopsis of Lectures, see Course C, under PURE SCIENCE.

VETERINARY HYGIENE.

The Agricultural College Course.

ENTOMOLOGY IN RELATION TO AGRICULTURE AND HORTICULTURE.

The Course extends over the Autumn and Spring Terms.

R. STEWART MACDOUGALL, M.A., D.Sc., *Steven Lecturer*.

Lecture Course.

The exact position of Insects in the Animal Kingdom. Characters which serve to mark out Insects from related Classes of Animals.

General Insect Structure :—

(a) External Anatomy: head, antennæ, mouth-parts, eyes; thorax, legs, wings; abdomen, and its appendages.

(b) Internal Anatomy: musculature, nervous system and sense organs, alimentary canal, circulatory system, reproductive system.

Development of Insects. Metamorphosis with the significance of the various stages. Classification of Insects. Review of the various Orders of Insects. Insect larvæ, their varying forms as a help in determination. Insects in relation to man and other animals. Insects in relation to plants.

Inter-relations of Insects :—

Circumstances favouring insect increase. Predisposition of host; climatic influences. The general principles that tend to discourage insect attack. Insect-eating birds and mammals. Plant parasites. The so-called useful Insects, predaceous and parasitic. Extent and limits of parasitism.

Insecticides: the composition, properties and mode of application of the more important insecticides. Mechanical appliances. Fumigation. The inter-relationship between Economic Entomology and Systematic Botany.

Life history, with measures of prevention and remedy, of Insects affecting the following Agricultural and Fruit Crops:—

Gramineæ: wheat, barley, oat, rye; the various grasses; stored grain.

Liliaceæ: asparagus, onion, leek, shallot.

Chenopodiaceæ: beet and mangold, spinach.

Polygonaceæ: buckwheat.

Urticifloræ: hop, hemp.

Compositæ: lettuce.

Solanaceæ: potato, tomato.

Leguminosæ: bean, pea, clover, vetch, lucerne, medick, whin.

Umbelliferæ: carrot, celery, parsley, parsnip.

Cucurbitaceæ: cucumber.

Cruciferæ: cabbage, cauliflower, kale, brussels-sprouts, turnip, swede, kohl-rabi, radish, mustard, rape, cress.

Corylaceæ: nut.

Rosaceæ: apple, pear, medlar, quince, cherry, plum, raspberry, blackberry, rose.

Ribesceæ: currant, gooseberry.

Insects injurious to Stock: horse, ox, sheep, pig, dog, deer, poultry.

Arthropods, other than Insects, of importance in Agriculture:—

Myriapoda: Centipedes and Millipedes. Arachnida: spiders, gall mites, harvest mites, mange mites, ticks.

Practical Class.

Comparison of different types of Arthropods: shrimp, centipede, insect, spider, tick, gall-mite.

External Anatomy: Examination of an adult of the various Insect Orders. Comparison of mouth-parts.

Internal Anatomy of typical forms.

The Orders of Insects: the leading Families, Genera, and Species of insects of importance in Agriculture and Horticulture.

The various kinds of larvæ and pupæ.

The making of a collection: outfit, methods of catching, killing, preparation, preservation.

The various Insecticides: poisons, contact insecticides, repellents, fumigants. Composition of insecticides. Spray machinery and accessories.

ECONOMIC SCIENCE AS APPLIED TO AGRICULTURE.

PROFESSOR NICHOLSON.

Lectures up to Christmas in Class of Political Economy (see under FACULTY OF ARTS), and Special Tutorial instruction—Taylor's *Agricultural Economics*; Nicholson's *Rents, Wages, and Profits in Agriculture*.

FORESTRY.

The Agricultural College Course.

EXPERIMENTAL PHYSICS.

PROFESSOR BARKLA.

A full Laboratory Course of 100 hours in the Junior Practical Physics Class. See under FACULTY OF ARTS.

ENGINEERING.

Professor Stanfield's Course in the Heriot-Watt College.

ENGINEERING FIELD WORK.

PROFESSOR HUDSON BEARE.

See Summer Term Course, under GRADUATION IN ENGINEERING.

LAW OF LANDLORD AND TENANT.

CHARLES R. A. HOWDEN, M.A., *Lecturer*.

The Course is given in alternate sessions and is due in 1914-15.

A Course of ten lectures on this subject is given during the Winter Session, beginning, on a date to be fixed, in January, at 9 A.M. The lectures deal with The Relation of Landlord and Tenant, Leases, The Agricultural Holdings (Scotland) Act, 1908, The Small Landholders (Scotland) Act, 1911, The Diseases of Animals Act, 1894, etc. An examination is held at the end of the Course.

DEPARTMENT OF FORESTRY.**ZOOLOGY.**

PROFESSOR EWART.

The Course prescribed for the First Examination in PURE SCIENCE (see p. 312).

BOTANY.

PROFESSOR BALFOUR.

The Course prescribed for the First Examination in PURE SCIENCE (see p. 314).

NATURAL PHILOSOPHY.

PROFESSOR BARKLA.

For Lecture and Laboratory Courses, see under FACULTY OF ARTS.

The Qualifying Course in the Natural Philosophy Class for students of Forestry consists of the ordinary class, together with a Laboratory Course of fifty hours.

CHEMISTRY, including ELEMENTARY ORGANIC CHEMISTRY.

PROFESSOR WALKER and LECTURERS.

For Classes, see under PURE SCIENCE, First Year's Lecture and Laboratory Courses.

FORESTRY.E. P. STEBBING, *Lecturer, Head of Department.*

Note.—Prior to attendance upon the University Courses in Forestry—Intermediate and Advanced—an Introductory Course, at the College of Agriculture must be attended, as follows:—

Introductory Course.

(COLLEGE OF AGRICULTURE.)

A. W. BORTHWICK, D.Sc., *Lecturer.*

The Class meets from 10 to 11 daily throughout the Autumn and Spring Terms.

Character and Composition of forests in relation to soil and climate. Altitude and aspect.

Should trees be grown in pure woods or in mixed plantations?

Afforestation :—

Nurseries : (a) permanent ; (b) temporary. Choice of site, fencing, soil preparation, seed-collecting, storing, testing sowing. Preparation and care of seed beds. Transplanting to nursery lines.

Planting.—Choice of species. Preparation of area (surface and soil). Kind of plants used (age and size). Methods of planting. Tools suitable for various methods.

Natural Regeneration of Forests.—Various systems suitable under varying economic and climatic conditions.

Osier Cultivation.—Best kinds of basket willows and different systems of cultivation.

Tending of Woods.—Care of young plantations. Establishment of forest nurses, underplanting, thinning, improvement of existing woodlands.

Characteristics and Silvicultural Treatment of the more important indigenous and exotic forest trees—Oak, Beech, Ash, Sycamore, and other broad-leaved trees. Scots-pine, Larch, Spruce, Douglas-fir, and other coniferous trees.

Forestry in relation to Agriculture.—Wind breaks and shelter belts. Hedges and hedge-row trees.

The above Course to be given in conjunction with practical demonstrations in the Forest Garden, and at other suitable centres.

Intermediate Forestry Course.

E. P. STEBBING, *Lecturer*; assisted by Mr J. LYFORD PIKE, B.Sc., *Junior Lecturer*, and Mr. JAMES FRASER, B.Sc.

A Course of one hundred lectures, with practical work.

A ten days' practical Course in woods at the end of the Spring Term, followed by a Vacation Course.

The Class will meet five days a week during the Spring Term, at 11 A.M., and five days a week at 9 A.M. during the Summer Term.

(1) SILVICULTURE.

Elementary principles. Locality in relation to forest vegetation. Silvicultural notes on forest trees. Character and composition of woods. The silvicultural systems.

Formation and regeneration of woods: Preliminary works, direct sowing, planting, natural regeneration by seed and by coppice shoots.

Tending of woods: In early youth and later. Removal of undesirable trees, pruning, thinning.

Practical work in a forest garden, excursions in term and, for degree students, in the vacations (to France when possible).

Textbook.—Sir Wm. Schlich's *Manual of Forestry*, vol. ii.

(2) FOREST MENSURATION.

Instruments used in forest mensuration. Measurement of felled and standing trees, and of whole woods. Determination of the age and increment of trees and woods. Measurements practically demonstrated.

(3) FOREST PROTECTION.

Protection against animals (deer, rodents, birds, insects). Plants (weeds, fungi). Atmospheric influences (frost, insolation, wind, snow, rime). Non-atmospheric natural phenomena (shifting sand, fire). Diseases (red-rot, white-rot, stagheadedness, abnormal needle-shedding). Effect of acid fumes from furnaces.

PRACTICAL COURSE.

Excursions to the Forest Garden and elsewhere on Saturdays during the session. Ten days' practical work in woods at the end of the session.

Advanced Forestry Course.

E. P. STEBBING, *Lecturer*.

A Course of one hundred lectures with practical work in British, German, or French woods, as detailed below. The Class will meet five days a week during the session at such hours between 9 A.M. and 1 P.M. (Tuesday 12 noon) as may be arranged.

(4) FOREST ADMINISTRATION.

Utility of forests, direct and indirect. The State in relation to forestry. Protection forests. State forests. Corporation forests. Private forests. Forestry in Great Britain and Ireland.

Textbook.—Sir Wm. Schlich's *Manual of Forestry*, vol. i.

(5) FOREST VALUATION.

Valuation of forest soil, growing stock, and of whole woods. Determination of rental of woods. Financial results of forestry.

(6) FOREST MANAGEMENT.

Increment. Rotation. Normal Age Classes. Growing stock. Yield.

(7) FOREST WORKING PLANS.

Collection of Statistics. Allotment of Area. Method of Treatment. Regulation of Yield. Control Forms. Renewal of Plans.

Textbook (for (4), (5), (6), and (7)).—Sir Wm. Schlich's *Manual of Forestry*, vol. iii.

(8) FOREST UTILISATION.

Technical properties and qualities of wood. Industrial uses of wood. Felling. Conversion and seasoning of timber. Measurement of timber. Transport by land and by water. Timber depots. Sales. Harvesting and treatment of bark and seeds.

Forest industries : Antiseptic treatment of timber, manufacture of charcoal. Wood Pulp, etc.

Textbook.—Sir Wm. Schlich's *Manual of Forestry*, vol. v.

PRACTICAL COURSES.

In addition to Saturday excursions and the preparation of a simple working plan, undertaken whilst the theoretical Courses are being given, the practical Courses of the advanced work are four in number. They include a period of four weeks' practical work under a forester on a Scottish estate. The description of a compartment of a wood. A six weeks' Course of thinning and other work in the woods, and work in an Estate's Wood's Office in Scotland, or on the Continent, as may be determined for individual students. Two to three months under a Forest Officer in German or French woods.

The details are as follows :—

(1) FIRST PRACTICAL COURSE.

Four weeks in Easter vacation following the Course in Silviculture. Work in nursery ; planting ; felling ; sawmill and antiseptic treatment of wood. The Course will be carried out under a Forester on a Scottish estate.

(2) SECOND PRACTICAL COURSE.

Description of a compartment—undertaken in the following summer session. A wood will be surveyed with the plane table; the general characters of the soil, aspect, etc., described; the trees measured and their volume ascertained, and proposals for future treatment discussed.

(3) THIRD (ADVANCED) PRACTICAL COURSE.

A period of six weeks in the summer vacation, either in Scotland, France, or Germany, as may be determined. The theory and practice of thinning woods, and other practical work. Study of office administration and accounts, and the general working of a forest district.

(4) FOURTH (ADVANCED) PRACTICAL COURSE.

Two to three months under a Forest Officer in Germany or France—April to June, following the Advanced Theoretical Course. Preparation of a detailed working plan and examination of scientifically managed woods.

During the Advanced Theoretical Course excursions will be undertaken on Saturdays to study the commercial aspects of Forestry—paper mills, saw mills, timber depots, furniture making, etc.

The stem analysis of a tree and the preparation of a simple working plan will also be undertaken.

Students will be required to keep diaries of all the practical work they are engaged upon, and to send in such detailed reports as may be prescribed by the Head of the Department.

Students will graduate in July after the Continental Practical Course.

FOREST BOTANY.

A. W. BORTHWICK, D.Sc., *Lecturer.*

The Class meets on Monday, Wednesday, and Friday, from 2 to 5: seventy-five meetings, over two Winter Terms, with excursions.

The vegetation and flora of forest, their relation to edaphic and atmospheric conditions.

The Course deals with the characteristic organographical (including anatomical) and physiological features of forest trees, native and cultivated, in Great Britain, both in their seedling and their mature stage; the systematic position of these trees.

The structure of the more important timbers.

FOREST MYCOLOGY.

MALCOLM WILSON, D.Sc., *Lecturer.*

The Class meets from 2.30 P.M. to 5 P.M. on Tuesdays and Fridays during the Autumn Term, and on Fridays during the Spring Term; the Course consists of thirty lectures and practical work.

The Course deals with the principal families of the Fungi, Mycetozoa, and Bacteria which cause disease in plants.

Consideration of parasitism; specialisation of species.

Conditions encouraging disease; predisposition; immunity; production of immune varieties.

Description of the more important tree diseases; methods of treatment and prevention.

Diseases and rotting of timber.

FOREST CHEMISTRY.

(COLLEGE OF AGRICULTURE.)

ALEXANDER LAUDER, D.Sc., *Lecturer.*

1. *Plants.*—Composition of plants—essential constituents of plant food—sources of plant food—specific functions of the various constituents. The more important proximate constituents of plants—proteins and carbohydrates, fats and oils, amides—their composition and properties. Enzymes and their action.

2. *Soils.*—Origin and formation. Constitution of the soil—mineral matter—calcium carbonate and calcium phosphate—soil water—organic matter. Carbon and nitrogen cycles in the soil—the micro-organisms of the soil—effects of partial sterilisation. Composition of drainage waters—lysimetry—absorption of salts by the soil. Soil analysis and its interpretation.

3. *Manures.*—Their classification, composition, and characteristics—specific action and suitability for different soils and crops—economic use, and the principles regulating their application

—methods of conducting manurial experiments—experimental error of field experiments—analysis and investigation of manures—valuation of manures, and of unexhausted fertility.

4. *Forest Soils*.—Comparison with soils under arable cultivation or pasture; water content—conservation of soil moisture—mulches—leaf mould—drainage—sources of loss and gain of plant food—accumulation of nitrogen in forest soils.

5. *Smoke Pollution*.—Its effect on trees.

6. *Products* obtained from wood—wood distillation—wood pulp—chemical and mechanical methods of preparation—turpentine and resins—products from bark.

Methods employed in the preservation of timber.

Practical Course.

Examination of soils—separation and examination of humus—mechanical analysis of soils—absorption of salts by the soil.

Proximate constituents of wood—examination of the ash of wood—turpentine and resins—the products of wood distillation—properties of cellulose—examination of chemical and mechanical wood pulps—examination of substances used in the preservation of timber.

GEOLOGY.

PROFESSOR JEHU.

See Course C, under PURE SCIENCE.

FOREST ZOOLOGY.

DR R. STEWART MACDOUGALL, M.A., *Lecturer*.

The Course extends over the Autumn and Spring Terms.

Lecture Course.

The Vertebrate Classes of importance in Forestry :—

Aves.—Finches, the Tree-Creeper, Nuthatch, Woodpeckers, Pigeons, Game-Birds, Owls, Hawks.

The Mammalian Orders with species of Forest importance :—Voles, Mice, Rats, Squirrel, Dormouse, Rabbit, Hare, Deer.

Invertebrate Classes.—Worms, Molluscs, Arthropods.

Insecta.—General insect structure. The detailed anatomy of a typical insect. Relation of insect structure to methods of extermination. Development and Metamorphosis of Insects. Classification of Insects with the chief characters of each Order.

The general principles which tend to increase or to discourage insect attack:—Methods of cultivation of crop; pure or mixed forest; felling and planting. Insectivorous birds and mammals, parasitic insects, fungi parasitic on insects; fumigation of nursery stock; insecticides.

The general relations of insects and plants. Forest insects studied in detail under the following heads:—

- (1) Description of insects in various stages, for recognition.
- (2) Nature and extent of damage, with recognition of the pest by its mode of damage where possible.
- (3) Life-history.
- (4) Methods of prevention against attack.
- (5) Remedies in case of attack.
- (6) Measures of extermination.

Insects as harmful physiologically to growing crops, and technically to felled and stored timber.

Arachnida.—Spiders and Gall Mites.

Myriapoda.—Centipedes and Millipedes.

Practical Course.

Comparison of different types of Arthropods.

External structure of imago in the different insect Orders.

Internal anatomy of typical adults and larvæ.

The Orders of Insects: the leading Families, Genera, and Species of insects of importance in Forestry. The various kinds of larvæ and pupæ.

The making of a collection: outfit, methods of catching, killing, preparation, preservation.

Methods of staining and mounting for the microscope. Paraffin—embedding methods.

The various Insecticides: poisons, contact insecticides, repellents, fumigants. Composition of insecticides. Spray machinery and accessories.

FOREST ENGINEERING.**(1) Elementary Engineering.**

WILLIAM GORDON, B.Sc., A.M.I.Mech.E., *Lecturer.*

Autumn Term.

Tuesday and Thursday, 11-12.

A Course of twenty lectures dealing with the following subjects :—

Use, characteristics, and manufacture of materials—bricks, stone, lime, mortar, cement, concrete, ferro-concrete ; roofs of various types ; designs for small bridges, culverts, etc. ; road construction and drainage ; sawmills, timber slides, and forest tramways ; wire-rope bridges and tramways.

(2) Engineering Drawing.

WILLIAM GORDON, B.Sc., A.M.I.Mech.E., *Lecturer.*

Autumn Term.

Tuesday and Thursday, 12-1.

Wednesday, 11-1.

Practical instruction in Geometrical and Engineering Drawing will be given in the following subjects :—

Construction of Scales, and Calculation of Areas ; Elementary Building Construction ; Making of Detailed Drawings from Figured Sketches ; Graphic Determination of Stresses in Structures ; Design of Simple Roofs and Bridges in Timber and Steel.

(3) Surveying.

PROFESSOR HUDSON BEARE.

This is the ordinary Course for Engineering Field Work, which meets in summer. See Summer Term Course under GRADUATION IN ENGINEERING.

DEPARTMENT OF VETERINARY SCIENCE.**PRACTICAL CHEMISTRY.**

(ROYAL (DICK) VETERINARY COLLEGE.)

PROFESSOR GLEMMILL.

Determination of Solubility of various Salts.

Separation of Soluble from Insoluble Solids.

Preparation of simple Salts and purification by crystallisation.

Preparation and Properties of Elementary and Compound Gases.

Properties of common Acids and Alkalis.

Action of Heat on certain Elements and Compounds.

Qualitative Tests.—Dry way Tests ; Metallic Radicals ; Acid Radicals.

Simple Volumetric Analysis, Acidimetry and Alkalinity.

Textbook.—Dr A. C. Cumming's *Practical Chemistry for Medical Students.***Additional Work for First B.Sc. Examination in Veterinary Science.**

Preparation of Metallic and Non-metallic substances, and their purification by precipitation, crystallisation, and distillation.

Determination of the Equivalents of Copper, Tin, Zinc, and Magnesium, by methods of Oxidation and Reduction.

Use of Balance.

Volumetric Analysis.

Further examples in Acidimetry and Alkalinity, with various indicators.

Titration of Chlorine with Silver Nitrate.

Use of Permanganate and Thiosulphate solutions.

Standardisation of Permanganate by Oxalic Acid.

Estimation of Iron by Permanganate.

Tests for Carbon, Hydrogen, Nitrogen, Sulphur, and Halogens in organic compounds.

Determination of Melting and Boiling Points.

Tests and reactions for Ethyl Alcohol, Urea, Cane Sugar, Phenol, Acetic, Oxalic, Hydrocyanic, Tartaric, Citric, Salicylic Acids.

PHYSICS.

CARGILL G. KNOTT, D.Sc., *Lecturer.*

The Course includes :—

1. Matter and Energy—weight, force, pressure, motion, flow, etc. ; elasticity, sound.
2. Heat—Thermometry, Specific and Latent Heats, Humidity, Conduction.
3. Light and Radiation—reflexion, refraction, polarisation ; simple optical instruments.
4. Electricity and Magnetism—production and effects of electric currents ; Ohm's Law ; Faraday's Laws of electrolysis and induction ; instruments.

The Course includes in the Fifty Meetings of the Class a certain number of meetings for Practical Physics, in which the Students themselves perform important experimental measurements.

BOTANY.

MALCOLM WILSON, D.Sc., *Lecturer.*

The Course, which is given in the Summer Term, is entirely practical, and held in the Laboratory. It deals with Mycology, and other matters which have a bearing upon Veterinary Science.

ZOOLOGY.

A Summer Course is given on the Zoology of Domestic Animals. The Course deals with the Origin and History of the more important of these, including Horses, Sheep, Oxen, Dogs, Fowls, etc. ; and with the recent and extinct wild species from which the animals living under domestication are descended.

ANATOMY OF DOMESTICATED ANIMALS.

(ROYAL (DICK) VETERINARY COLLEGE.)

O. CHARNOCK BRADLEY, M.D., D.Sc., *Lecturer.*W. M. MITCHELL, *Assistant.***Lectures on Anatomy.***First Year*, at 11 A.M. on Tuesdays and Thursdays.

The lectures for students of the first year consist of an introduction to the subject of Anatomy, and a detailed consideration of the bones and joints of the various domesticated animals. Students are expected to avail themselves of the opportunities afforded by the Bone Room to make themselves practically acquainted with the subjects treated of in the course of lectures.

Second Year, at 12 noon on Mondays, Wednesdays,
and Fridays.

Systematic lectures are given on the structure of the domesticated animals, particular attention being directed to the horse and the dog. The development and microscopic structure of the various organs is also considered in this Course.

The lectures are illustrated by dissections, models, diagrams, etc., and in both the First and Second Year are supplemented by tutorial demonstrations.

Textbook.—Sisson's *Veterinary Anatomy*.

Practical Anatomy.

First Year, from 2 P.M. to 4 P.M. on Mondays, Thursdays,
and Fridays.

Students in the first year of their curriculum dissect the dog, in the Spring Term of the Session.

Second Year, from 9 A.M. to 11 A.M.

During their second year, students engage in dissection every week-day (except Saturdays) throughout the Session, and devote especial attention to the anatomy of the horse.

Textbooks.—M'Fadyean's *Anatomy of the Horse*; Bradley's *Dissection of the Dog*.

HISTOLOGY.

(ROYAL (DICK) VETERINARY COLLEGE.)

O. CHARNOCK BRADLEY, M.D., D.Sc., *Lecturer.*

W. M. MITCHELL, *Assistant.*

At 2 P.M. on Tuesdays and Thursdays, and at 9.30 A.M. on Saturdays.

The Course is entirely practical, and consists of class-work and demonstrations in which the microscopic structure of the tissues and organs of the bodies of the domesticated animals is examined in detail. The student is also taught the commoner methods by which microscopic preparations are made.

The Course extends through all three terms of the Session.

Textbook.—Schäfer's *Essentials of Histology.*

EXPERIMENTAL PHYSIOLOGY AND CHEMICAL PHYSIOLOGY.

PROFESSOR SIR EDWARD A. SCHÄFER and LECTURERS.

Veterinary Students take the Courses in these subjects, which are set forth in the Syllabus of the FACULTY OF MEDICINE. See page 513.

PATHOLOGICAL BACTERIOLOGY.

PROFESSOR RITCHIE.

Veterinary Students take the Advanced Course in Bacteriology (see page 517), and do additional work specially related to Veterinary Science.

PROTOZOOLOGY AND ENTOMOLOGY.

J. H. ASHWORTH, D.Sc., *Lecturer.*

Veterinary Students attend the Course for the Diploma in Tropical Medicine and Hygiene ; their attention being specially devoted to those sections of the work which are of importance to Veterinary Surgeons.

SANITARY SCIENCE AND VETERINARY HYGIENE.

PROFESSOR HUNTER STEWART and J. BUCHANAN YOUNG,
M.B., D.Sc. (P.H.)

The Course will consist of Lectures and Practical Work, and will be held in the Spring Term. The following subjects will be embraced in the Course :—

Water Supply :

Sources—filtration, storage. Causes of contamination. Chemical and bacteriological examination of drinking water.

Stables and Cowsheds :

Their sanitary requirements as regards structure. Cleanliness. *Ventilation and Warming*—practical examination of the atmosphere.

Cow's Milk.

Precautions necessary in its production, cooling, and storing. Characters of milk. Adulterations. Chemical and bacteriological examination of milk.

GENETICS.

A. D. DARBISHIRE, M.A., *Lecturer.*

Mondays, Wednesdays, and Fridays at 4 P.M., in the Spring Term.

This Course of twenty-five lectures deals with the biometrical method, the law of ancestral inheritance, and the idea of transmission through "pure lines"; the Mendelian phenomena, methods and principles, their biological significance and practical application; the mode of inheritance of sexual characters; the inheritance of defects and of immunity to disease; the idea of heredity as a phenomenon of memory.

GRADUATION IN PURE SCIENCE.

Note.—These Regulations are set forth in Ordinances of H.M. Commissioners and of the University Court.

N.B.—*Paragraphs headed with Roman Numerals are from the Ordinance No. 12 of the Scottish Universities Commissioners, unless otherwise stated.*

I. Two degrees in Science may be conferred by each of the Universities of Scotland, viz., Bachelor of Science (B.Sc.) and Doctor of Science (D.Sc.). These degrees may be given in Pure Science and in Applied Science.

Preliminary Examination.

II. See earlier Section, pages 85-104.

Courses of Instruction.

III. (1) Candidates for the degree of Bachelor of Science must, in the course of not less than three Academical years, attend at least seven courses of instruction, in subjects prescribed for examination under Sections VIII. and IX. of this Ordinance.

(2) Three of these courses must be in subjects prescribed for the First Science Examination under Section VIII.; and four must be in subjects prescribed for the Final Science Examination under Section IX.

IV. (1) Four of the seven courses must be taken in the University in which the degree is conferred.

(2) Three may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science: Provided that the fees for attendance at an approved Institution or under a recognised teacher in the town in which the University is situated shall not be less than the fees exigible for the corresponding courses in the University.

UNIVERSITIES AND INSTITUTIONS AT PRESENT RECOGNISED IN TERMS OF THE ABOVE REGULATION AND CORRESPONDING REGULATIONS IN APPLIED SCIENCE.

The Universities of—

St Andrews	Cambridge	Birmingham
Glasgow	Dublin	Sheffield
Aberdeen	Victoria University,	Liverpool
Oxford	Manchester	Leeds

Heriot-Watt College.—Mathematics qualifying for First Science Examination; Mechanics and Physics, as equivalent to one course in Natural Philosophy, qualifying for the first B.Sc. examination in Pure Science, Engineering, and Agriculture; Chemistry and Chemical Laboratory, as qualifying for the first and final B.Sc. examination; Electricity

(Pure and Applied), Engineering Lectures and Drawing, Laboratory Practice (Mechanical or Electrical), as qualifying for the degree of B.Sc. in Engineering. (See pages 319 to 328.)

Glasgow and West of Scotland Technical College.

University College, London.

King's College, London.

Royal Colleges of Science, South Kensington.

Owens College, Manchester.

College of Science, Newcastle-on-Tyne.

University College, Bristol.

University College, Nottingham.

University College of North Wales, Bangor.

University College of Wales, Aberystwyth.

University College of South Wales and Monmouthshire.

Queen's University of Belfast.

Queen's College, Cork.

Queen's College, Galway.

College of Science, Stephen's Green, Dublin.

School of Mines, Dublin.

Royal Agricultural College, Cirencester.

College of Agriculture, Downton.

Veterinary Colleges of the United Kingdom.

M'Gill University, Montreal.

University College of Toronto.

Queen's University, Kingston, Ontario.

University of Sydney.

University of Melbourne.

University of Adelaide.

Wellington College.

University of New Zealand.

University of Otago.

Dalhousie College, Halifax, Nova Scotia.

Stellenbosch College, South Africa.

University of Harvard.

University of Yale.

Johns Hopkins University.

Madras College of Agriculture.

The Universities, and Polytechnic Schools supported and regulated or recognised by the governments of the respective Countries of Europe.

Colleges affiliated (up to B.A. and B.Sc. Standard) to Universities of India, and Engineering Colleges affiliated to these Universities.

TEACHERS RECOGNISED UNDER THE SAME REGULATION.

Alex. Lauder, D.Sc., Edin., and East of Scot. College of Agriculture (Chem. and Pract. Chem., 1st B.Sc. Exam.).

Malcolm Laurie, D.Sc. (Zoology, 1st B.Sc. Exam.).

J. Ryland Whitaker, B.A., M.B., Edinburgh (Anatomy).

T. W. Drinkwater, Ph.D., Edinburgh (Chemistry, 1st B.Sc. Exam.).

- J. C. Beattie, D.Sc., and Alexander Brown, B.Sc., South African College, Cape Town, conjointly (Natural Philosophy, 1st B.Sc. Exam.).
- H. H. W. Pearson, M.A., South African College, Cape Town (Botany, 1st B.Sc. Exam.).
- W. R. Bower, Huddersfield (Courses in Physics and Electricity, 1st B.Sc. Exam.).
- T. W. Woodhead, Ph.D., Huddersfield (Botany, 1st B.Sc. Exam.).
- J. Bruce, D.Sc., Huddersfield (Chemistry, 1st B.Sc. Exam.).
- J. D. F. Gilchrist, South African College, Cape Town (Zoology, 1st B.Sc. Exam.).
- P. D. Hahn, South African College, Cape Town (Chemistry, 1st B.Sc. Exam.).
- W. G. Smith, B.Sc., Ph.D., Edin., and East of Scot. College of Agriculture (Botany for Agriculture and Forestry).

Note.—Post-Graduate instruction in Technical Mycology can be obtained under Dr Westergaard in the Heriot-Watt College.

V. All candidates, not matriculated students of a University, availing themselves of the permission to attend lectures at approved Institutions or by recognised teachers in the town in which the University is situated, shall at the commencement of each year of such attendance enrol their names in a book to be kept for that purpose in the University, paying a fee of the same amount as the Matriculation Fee paid by students of the University, and having in respect of such payment a right to the use of the Library of the University.

Boards of Studies, etc.

VI. (1) It shall be the duty of the Senatus to determine from time to time the number of meetings of which a full course in any subject shall consist, and to report its determination to the University Court for its approval.

(2) The Senatus, with the approval of the University Court, may sanction half-courses of not less than half the number of meetings which constitute a full course in the subject; but two half-courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

(3) It shall be the duty of the Professor and Lecturer¹ annually at the end of each winter session to submit to the Senatus a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus shall transmit such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(4) It shall be the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Faculty of Science to be here-

¹ This applies to all extra-mural teachers in Edinburgh whose courses have been recognised.

after constituted in each University, for its consideration, a syllabus of the subjects and books proposed for the work of their classes during the next Academical Year. The Faculty of Science shall transmit such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VII. The provisions of the preceding section shall not apply to approved Institutions or recognised teachers outside the town in which the University is situated; but the University Court shall not grant or continue recognition to any Institutions or teachers unless they shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the Universities of Scotland.

(Ordinance No. 42.)

II. The Commissioners statute and ordain as follows :—

(1) For the better carrying out of the purposes of Section VI., Sub-sections 1, 2, and 3, of Ordinance No. 12 [General No. 7—Regulation, for Degrees in Science], the Senatus Academicus shall institute a Board or Boards of Studies consisting of Professors in the Faculty of Sciences together with such Professors in other Faculties whose subjects qualify for graduation in Science, and such of the Lecturers in the University appointed under the provisions of Ordinance No. 17 [General No. 10—Regulations as to Assistants and Lecturers] as the Senatus may from time to time select.

(2) The Senatus shall appoint one of the members of such Board or Boards to be Convener thereof.

(3) It shall be the duty of such Board or Boards of Studies to consider the matters specified in the said Section VI., Sub-sections 1 and 2, of the said Ordinance, and to report their opinion on the same to the Faculty of Science for consideration before transmission by the Faculty to the Senatus.

(4) In carrying out the duty imposed upon them by the said Section¹ VI., Sub-section 3, of the said Ordinance, the Professors and Lecturers shall submit the schemes therein mentioned to the Board or Boards of Studies, by whom the same shall be transmitted to the Faculty of Science, who shall submit them to the Senatus Academicus, with such observations as they may think fit to make thereon.

FIRST SCIENCE EXAMINATION.

VIII. (1) There shall be a First Science Examination in the three following subjects—viz.: (1) Mathematics, or Biology (*i.e.*, Zoology and Botany); (2) Natural Philosophy; (3) Chemistry.

2. The examination in all these subjects shall be the same as the examination in these subjects for the ordinary degree of Master of Arts.

(3) Candidates may present themselves in any one or more of these subjects at any examination held after they have attended a full course in the subject or subjects professed.

¹ This applies to all extra-mural members in Edinburgh whose courses have been recognised.

FACULTY OF SCIENCE

Qualifying Courses.

Mathematics.—Three-term Course: as for M.A. See Faculty of Arts.

Zoology.—Lectures during the Autumn Term, daily, 12-1. Practical Work during the Spring Term, daily, 12-1. Students of Science beginning in Summer are permitted to take the Lectures and Practical Course designed for Students of Medicine, in that Term. It is, however, *strongly recommended* that Zoology be attended in the Autumn and Spring Terms.

Botany.—Three-Term Course: Tuesdays and Thursdays. Lectures at 2 P.M.; Practical Work in the Laboratory, from 3 P.M. until 5 P.M. Excursions during each of the three Terms.

Autumn Term.—A study is made of the Anatomy and Histology of Phanerogamic Plants and their elementary Physiology.

Spring Term.—The life-histories of selected types of Cryptogamic Plants are studied.

Summer Term.—The work during this Term deals with Phanerogamic Plants, particularly those represented in the British Flora.

Natural Philosophy.—Three-term Course: see under Faculty of Arts. A full course in Natural Philosophy, for graduation in Pure Science, includes at least 75 Lectures, and 50 hours of Practical Work in the Laboratory.

Chemistry.—The Lecture Class meets on Mondays, Wednesdays, and Fridays from 10 to 11, during the three Terms. For Tutorial work, which is obligatory, the Class may be divided into two sections, which will meet on Tuesdays or Thursdays. The lectures are chiefly devoted to Elementary Inorganic Chemistry, embracing the more important metallic and nonmetallic elements and their chief compounds, together with an introduction to Chemical Theory.

The Laboratory Course must be taken in conjunction with the Lecture Course. It meets for two hours twice a week during three Terms. The work will include simple inorganic preparations, the detection of the chief inorganic elements and compounds, and an introduction to Volumetric and Gravimetric Analysis.

Outline of Subjects of First Science Examination.

For Synopses of Courses, see pages 305-317.

MATHEMATICS.

For Subjects, see Courses on pages 197-9.

Candidates will be examined on the subjects of the courses which they have taken, viz. :—

Course.

Examination.

(a) Examination for Ordinary Degree, First Course.

(b) Do. do., Second do.

(c) Examination in Mathematics for Engineering, First Paper.

(d) Do. do., Second do.

(e) The Second and Third Papers in the Intermediate Honours Examination.

Students who have attained a certain standard in their class work, which is determined by the Professor of Mathematics and the Additional Examiner, with the approval of the Senatus and University Court, will be exempted from the First Science Examination in Mathematics. At present the standard in question is the standard for a *second class certificate*.

ZOOLOGY.

(a) The General Principles of Biology.

(b) The distinctive characters of the Invertebrate groups, and the structure, habits, etc., of *Amœba*, *Paramœcium*, *Hydra*, *Arenicola*, *Hirudo*, *Helix*, and *Nephrops*.

(c) The distinctive characters of the Vertebrate groups, and the structure, habits, etc., of *Gadus*, *Raia*, *Rana*, *Columba*, and *Lepus*.

(d) A general knowledge of the Orders of Vertebrata.

(e) The outlines of the development of *Amphioxus*, *Rana*, *Gallus*, and *Lepus*.

(f) The Geographical Distribution of Animals.

(g) A general knowledge of Wallace's Darwinism.

The Practical and Oral Examinations will deal with the work of the Elementary Practical Course, which includes demonstrations on microscopic and museum preparations.

BOTANY.

The characteristic features of the following groups of the vegetable kingdom:—

Thallophyta, Bryophyta, Pteridophyta, Spermatophyta.

The fundamental facts and principles of Organography, Physiology, and Geographical Distribution.

The life-history of the following plants:—*Bacterium*, *Nostoc*, *Pleurococcus*, a Diatom, *Spirogyra*, *Vaucheria*, *Fucus*, *Callithamnion*, *Mucor*, *Cystopus*, *Saccharomyces*, *Eurotium*, *Peziza*, *Claviceps*, *Puccinia*, *Agaricus*, *Physcia*, *Pellia*, *Mnium*, *Sphagnum*, *Aspidium*, *Equisetum*, *Selaginella*, *Cycas*, *Pinus*, *Scilla*, *Capsella*, *Ulmus*.

The characters of the following natural orders of *Phanerogamæ*:—*Alismaceæ*, *Boraginaceæ*, *Campanulaceæ*, *Caprifoliaceæ*, *Caryophyllaceæ*, *Chenopodiaceæ*, *Compositæ*, *Convolvulaceæ*, *Cruciferae*, *Cupuliferæ*, *Cyperaceæ*, *Dipsacæ*, *Droseraceæ*, *Ericaceæ*, *Geraniaceæ*, *Gramineæ*, *Hydrocharidæ*, *Labiatae*, *Leguminosæ*, *Lemnaceæ*, *Lentibulariaceæ*, *Liliaceæ*, *Lythraceæ*, *Malvaceæ*, *Naiadaceæ*, *Nymphaeaceæ*, *Onagraceæ*, *Orchidæ*, *Orobanchaceæ*, *Papaveraceæ*, *Plantagineæ*, *Primulaceæ*, *Ranunculaceæ*, *Rosaceæ*, *Rubiaceæ*, *Rutaceæ*, *Salicinæ*, *Saxifragaceæ*, *Scrophularinææ*, *Solanaceæ*, *Thymeleaceæ*, *Typhaceæ*, *Umbelliferæ*, *Urticaceæ*, *Valerianaceæ*.

NATURAL PHILOSOPHY,

including Elementary Dynamics, Properties of Matter, Electricity and Magnetism, and Heat, Light, Sound.

Candidates are required to submit to the Examiners properly authenticated and certified records of fifty hours of Laboratory work, which records will be taken into consideration.

Students who have attained a certain standard in their class work, which is determined by the Professor of Natural Philosophy and the Additional Examiner, with the approval of the Senatus and the University Court, will be exempted from the First Science Examination in Natural Philosophy. At present the standard in question is the standard for a *second class certificate*.

CHEMISTRY.

Candidates will be examined by paper, and in the Laboratory, on the work of the First Lecture and Laboratory Courses.

FINAL SCIENCE EXAMINATION.

IX. (1) There shall be a Final Science Examination on a Higher Standard, in any three or more of the following subjects :—

1. Mathematics.
2. Natural Philosophy.
3. Astronomy.
4. Chemistry.
5. Human Anatomy, including Anthropology.
6. Physiology.
7. Geology, including Mineralogy.
8. Zoology, including Comparative Anatomy.
9. Botany, including Vegetable Physiology.

(2) The standard of this examination shall be as nearly as possible equivalent to that of the examination for the degree of Master of Arts with Honours, where the subjects are different; and where the subjects are the same, the examinations shall be identical.

(3) A subject already taken under the preceding Section for the First Science Examination may be taken also under this Section for the Final Science Examination.

(4) Candidates presenting themselves for this examination must have attended four full courses of higher instruction, including practical or laboratory work, in the subjects professed, subject always to the provisions of Sections VI. and VII. hereof.

(5) The Final Science Examination shall be taken not less than one year after the candidate has passed the First Science Examination.

Qualifying Courses.

In all subjects there are two standards of Study and of Examination—*Intermediate* and *Advanced*. In each of the subjects professed, candidates must pass the *Intermediate* Examination; and, in at least one subject, the *Advanced* Examination also. In Mathematics and Natural Philosophy the Examination is the same as for Honours in Arts. The following Courses of Higher Instruction in this University qualify for the first and second stages (*Intermediate* and *Advanced*), respectively, of the Final Examination in Pure Science:—

1. **Mathematics.**—(1) *Intermediate Course*, as for Honours in Arts. (2) *Advanced Course*, as for Honours in Arts. Degree Examinations—*Intermediate* and *Advanced*, in June.

2. **Natural Philosophy and Applied Mathematics.**—(1) *Intermediate*: *Intermediate Honours Classes* (Half-Courses) in Applied Mathematics, Heat, and Electricity; (2) *Advanced*: *Final Honours Classes* (Half-Courses) in Applied Mathematics (*a.* *Advanced Dynamics*, etc.; *b.* *Quaternions in its Physical Applications*), *Advanced General Physics*, *Physical Optics*, and (two Half-Courses) *Electricity*. Degree Examinations—*Intermediate* and *Advanced*, in June.

3. **Astronomy.**—*Intermediate Course*: the Class Lectures and those parts of Berry's *History of Astronomy*, Young's *General Astronomy*, and Ball's *Spherical Astronomy* that deal with the same subject-matter, *Elementary Astrodynamics*, *Practical Exercises*; *Advanced Course*: the subject-matter of the advanced course, with practical work and knowledge of the text-books and memoirs that bear upon it. Degree Examinations—*Intermediate*, December and June; *Advanced*, July.

4. **Chemistry.**—(1) *Intermediate Course*: *Intermediate Lecture and Laboratory Courses* (see Courses, p. 306). (2) *Advanced Course*: *Further Laboratory Work and Advanced Lecture Course* (see Courses, p. 308). Degree Examinations—*Intermediate*, December and June; *Advanced*, June.

5. **Human Anatomy, including Anthropology.**—(1) *Intermediate Course*: Six months' Lectures on *Systematic Anatomy* (Winter Session), with at least six months' *Practical Anatomy* (it is recommended that the whole body should be dissected), and *Summer Course in Anthropology*. (2) *Advanced Course*: *Further work in Anatomy and Embryology*. Degree Examinations—*Intermediate*, March and June; *Advanced*, June.

6. **Physiology.**—(1) *Intermediate Course*: *Lecture Course*, with *Practical Chemical Physiology*, *Experimental Physiology*, and *Histology*, as for Second M.B. (2) *Advanced Course*: *All Advanced Practical Classes*. Degree Examinations—*Intermediate*, March and June; *Advanced*, March.

7. **Geology, including Mineralogy.**—(1) *Intermediate Course*: *Three-term Lecture Course*, and *Practical Class*. (2) *Advanced Course*: *Further Laboratory Work*, and two additional *Lecture Courses* (see Courses, p. 308). Degree Examinations—*Intermediate*, December and June; *Advanced*, June.

8. Zoology, including Comparative Anatomy.—(1) *Intermediate Course*: Lectures on Invertebrate Zoology, and on Embryology, with Laboratory Work. (2) *Advanced Course*: In addition to the foregoing:—Six months' Course on the Morphology of the Invertebrata and Vertebrata, and Laboratory Work. Degree Examinations—Intermediate, March and July; Advanced, July.

9. Botany, including Vegetable Physiology.—(1) *Intermediate Course*: Lectures in Autumn and Spring Terms, and a minimum of 250 hours' work in Laboratory. (2) *Advanced Course*: Lectures in three Terms, with 250 hours' work in Laboratory, in addition to the hours of the Intermediate Course. Degree Examinations—Intermediate, March and June; Advanced, July.

Outline of Subjects of Final Science Examination

MATHEMATICS.

Each Candidate must take the three Pure Mathematical Papers in the Intermediate Examination for M.A. Honours in the group of Mathematics and Natural Philosophy; and three or four of the Pure Mathematical Papers in the second stage of the Final Examination, according as he professes both Mathematics and Natural Philosophy on the higher standard, or Mathematics only.

NATURAL PHILOSOPHY AND APPLIED MATHEMATICS

The subjects for Natural Philosophy on the Intermediate Standard are: (1) Intermediate Dynamics¹; (2) Heat; (3) Intermediate Electricity. For the Higher Standard, three or four of the following additional subjects must be taken according as the candidate may or may not profess Mathematics on the higher standard as well as Natural Philosophy, viz.: Applied Mathematics (*a.* Advanced Dynamics; *b.* Quaternions in their Physical Applications), Advanced General Physics, Physical Optics, Electricity I., and Electricity II. Electricity I. must be taken by all candidates.

Properly authenticated records of Laboratory Work or of Original Research may be submitted to the Examiners by candidates as additional evidence of proficiency, and if submitted will be taken into consideration.

ASTRONOMY.

The Class Lectures, and those parts of Berry's *History of Astronomy*, Young's *General Astronomy*, and Ball's *Spherical Astronomy* that deal with the same subject-matter. Elementary Astrodynamics. Practical exercises.

¹ A further course of Electricity (Advanced Electricity I.) may be substituted for Intermediate Dynamics in the case of students who do not proceed to Natural Philosophy on the Higher Standard.

CHEMISTRY.

Written Examinations.—Inorganic Chemistry, Organic Chemistry, and Physical Chemistry.

Candidates who take Chemistry on the Higher Standard will be required to show proficiency in the Intermediate Papers, as well as to satisfy the Examiners in the subjects of special papers of a more advanced type. Alternative questions may be set which involve a reading knowledge of French and German.

Practical Examination.—*Intermediate*: Qualitative Analysis; the Preparation of Organic and Inorganic Substances; the Testing of Organic Compounds; Gravimetric and Volumetric Analysis.

Higher Standard: Candidates will also be examined in Ultimate Organic Analysis; Gas Analysis; Physico-chemical Measurements.

HUMAN ANATOMY, including ANTHROPOLOGY.

Candidates are required to show a competent knowledge of:—

- (a) The Principles of Embryology and of the Development of the Human Body.
- (b) The Position and General Arrangement of the "Systems" of Organs of which the body consists.
- (c) The Structure of the Organs and Tissues.
- (d) Surface Anatomy.
- (e) Race Characters as found in the skeleton, skin, eyes, hair, features, and general configuration.
- (f) The Methods of Anthropological Measurement of the skeleton and living bodies.
- (g) The Types of Mankind.
- (h) The Structural Relations between Man and the Higher Mammals.

An acquaintance with the technical applications of Human Anatomy to the practice of Medicine and Surgery is not required.

ANIMAL PHYSIOLOGY.

(Written and Practical Examinations.)

The minute Structure, Chemical Composition, and Functions of the Tissues and Organs of the Animal Body.

The Chemical Composition and Products of the Foods and Fluids involved in the Processes of Nutrition and Secretion.

In the Practical Examination candidates may be examined orally on any of the above subjects, and will be required to show a practical acquaintance with the methods employed in Histology, Chemical Physiology, and Experimental Physiology.

GEOLOGY, including MINERALOGY.

1. *Dynamical Geology*.—The nature and operation of geological agents : The Atmosphere, Rain, Terrestrial Waters, Ice, the Sea, Plants and Animals, Volcanoes, Movements of the Earth's Crust.

2. *Mineralogy*.—Physical and Chemical characters of the more important and typical species in the various mineral groups—more especially rock-forming minerals and ores.

3. *Petrography*.—Macroscopic and Microscopic Characters, Composition, Origin, and Distribution of Rocks.

4. *Structural Geology*.—Structure of Rock-masses, Inclination and Curvature of Rocks, Joints, Cleavage, Foliation, Metamorphism, Faults, Overlap, Unconformity.

5. *Physiographical Geology*.—Origin of the present outlines of the Earth's surface.

6. *Paleontological Geology*.—Characters, and distribution in time, of the more important Orders and Genera, especially those found fossil in Britain.

7. *Stratigraphical Geology*.—The History of the Geological Systems—more especially those of the British Islands.

For the Final Examination on the *Higher Standard*, students must take Courses A, B, D, and E ; for the Final Examination on the *Intermediate Standard*, Courses A and B. (See pages 310-12.)

ZOOLOGY, including COMPARATIVE ANATOMY.

1. The Systematic Zoology of the Invertebrate and Vertebrate groups.

2. The Elements of the Comparative Anatomy and Development of the Invertebrata and Vertebrata. See also page 383.

3. The Principles of Natural Selection, a knowledge of the Geographical Distribution of Vertebrate Animals.

The following books are recommended :—Sedgwick's *Text-Book of Zoology*, Parker and Haswell's *Text-Book of Zoology*, Wiedersheim's *Comparative Anatomy of Vertebrates*, Marshall's *Vertebrate Embryology*, Darwin's *Origin of Species*, Wallace's *Darwinism*, and *Island Life*, Thomson's *Heredity*, Punnett's *Mendelism*, Darbishire's *Breeding and the Mendelian Discovery*, and, for reference on special subjects, Lankester's *Treatise on Zoology*, Cambridge *Natural History*, Lattier's *Natural History*, Wilson's *Cell*, Lillie's *Development of Chick*, Jenkinson's *Experimental Embryology*, Bateson's *Mendel's Principles of Heredity*.

BOTANY, including VEGETABLE PHYSIOLOGY.**Intermediate Standard.**

1. Organography and Physiology of Plants.
2. Life-history of the following: — *Fungi* — Sporodinia, Saprolegnia, Pythium, Peronospora, Phytophthora, Synchytrium, Protomyces, Pyronema, Morchella, Rhytisma, Tuber, Penicillium, Sphaerotheca, Nectria, Xylaria, Exoascus, Ustilago, Gymnosporangium, Hirneola, Dactyomyces, Exobasidium, Stereum, Clavaria, Merulius, Polyporus, Armillaria, Coprinus, Crucibulum, Lycoperdon, Phallus. *Lichenes* — Collema, Cladonia. *Algae* — Euglena, Volvox, Closterium, Tabellaria, Ulothrix, Œdogonium, Coleochaete, Chara, Ectocarpus, Dictyota, Laminaria, Batrachospermum, Nematium, Polysiphonia. *Bryophyta* — Riccia, Marchantia, Diplophyllum, Anthoceros, Funaria, Polytrichum. *Plerophyta* — Lycopodium, Isoetes, Ophioglossum, Marattia, Osmunda, Hymenophyllum, Cyathea, Polypodium, Marsilia, Salvinia. *Gymnosperms* — Ginkgo, Ephedra. *Angiosperms* — Eranthis, Nymphaea, Euonymus, Lathyrus, Rosa, Drosera, Erica, Streptocarpus, Lathraea, Pinguicula, Utricularia, Quercus, Orchis, Lemna, Zostera, Carex, Triticum.
3. Elements of Ecology.
4. The natural orders of Phanerogamæ represented in Great Britain.

Higher Standard.

1. Organography and Physiology of Plants.
2. The Principles of Plant Classification, and the Systematic Characters of the chief Families of Plants, including the Life-Histories of Representative Types.
3. The chief facts of Geographical Distribution, floristic and œcological, and the explanation of these.
4. The chief facts of Vegetable Palæontology, and their bearing on the Theory of Descent.

X. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint, and in every case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XI. A candidate for the degree of Bachelor of Science shall not be deemed to have attended a class as part of the Curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XII. It shall be competent to the Examiners for the degree of Bachelor of Science to report that a candidate has passed with special distinction in one or more of the subjects professed by him; and in such a case a Diploma shall be given setting forth the subjects in respect of which the degree has been granted, and the subject or subjects in which special distinction has been obtained.

DEGREE OF DOCTOR OF SCIENCE.

(Pure Science.)

1. Graduates of this University who have held the degree of B.Sc. for five years may offer themselves for the degree of D.Sc. Candidates must profess one of the following branches of Science:—Mathematics; Natural Philosophy; Astronomy; Chemistry; Human Anatomy, including Anthropology; Physiology, including Histology; Geology, including Mineralogy; Zoology, including Comparative Anatomy; Botany, including Vegetable Physiology; and in this they will be expected to show a thorough knowledge.

2. Masters of Arts of this University who have taken the degree with first or second class honours under the conditions prescribed by the present Regulations for degrees in Arts or under the Regulations previously in force in this University, or who have taken a degree in any Scottish University which the Senatus shall hold to be equivalent to such degree with honours as aforesaid, may offer themselves for the degree of D.Sc. after the expiry of five years from the date of their graduation in Arts, under the same conditions as if they held the degree of B.Sc.

3. Research Students within the meaning of the Regulations for the Encouragement of Special Study and Research and for the appointment of Research Fellows, may offer themselves for the degree of D.Sc. of the University in which they have prosecuted some special study or research, although they have not taken the degree of B.Sc. or the degree of M.A. with honours as aforesaid, in that University; provided—

- (1) That they hold the degree of Bachelor of Science or Bachelor of Medicine of a Scottish or any recognised University, or a degree of any such University, which the Senatus shall hold equivalent to the degree of B.Sc. or to the degree of M.A. with first or second class honours in Mathematics and Natural Philosophy; provided that candidates who hold any such degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students with a view to the degree of D.Sc., to pass an examination equivalent to an Honours or to a Final Science examination in a group of subjects cognate to their line of work as Research Students.
- (2) That they have spent not less than two winter sessions, or an equivalent period, as Research Students in the University granting the degree, and that they produce evidence of satisfactory progress in the special study or research undertaken by them during that period.
- (3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

4. All candidates for the degree of D.Sc. shall present a Thesis or a published Memoir or Work, to be approved by the Senatus on the recommendation of the Faculty of Science; provided that, if required by the Senatus, the candidate shall also be bound to pass such an examination, conducted orally or practically, or by written paper, or by all of these methods, on the subjects of his special study, or of his Thesis, as may from time to time be determined. The Thesis shall be a record of original research undertaken by the candidate, and shall be accompanied by a Declaration, signed by him, that the work has been done, and the Thesis composed by himself.

The Thesis must be lodged with the *Dean of the Faculty of Science*, and the fees paid, on or before 31st December for March Graduation, and on or before 1st May for July Graduation.

5. Notwithstanding and in supplement of the Regulations as to Examinations, the Senatus Academicus shall appoint such Professors or Lecturers as it may think suitable to conduct the examination of candidates who may offer themselves for the degree of D.Sc., and the University Court shall, after consultation with the Senatus Academicus, appoint an additional Examiner to act along with them. Such additional Examiner shall be a person of recognised eminence in the subject of the thesis, or memoir, or work which is to be submitted for approval. The result of the examination shall be reported to the appropriate Faculty or Committee of Senatus.

6. The degree of D.Sc. shall in no case be conferred on persons who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

7. The fee for examination for D.Sc. is £10, 10s.; for re-examination, £5, 5s. Candidates must also pay the Matriculation Fee of £1, 1s.

See REGULATIONS FOR SPECIAL STUDY AND RESEARCH, etc., p. 138.

REGULATIONS FOR THE GRADUATION OF WOMEN AND FOR THEIR INSTRUCTION.

Excerpts from Ordinance No. 18 (General No. 9).

1. It shall be in the power of the University Court to admit women to graduation.

2. The conditions for graduation shall be the same for women as for men, subject to the following modifications, which shall have effect until provision is made for the instruction of women in all subjects qualifying for graduation, in which provision is made for the instruction of men:—

Section III. of the Regulations for Degrees in Science shall not be applicable to the graduation of women in Science, so long as within the Faculty provision is not made for the instruction of women in any subject qualifying for graduation in which provision is made for the instruction of men, and it shall be in the power of the University Court to admit to

graduation women who have received the requisite instruction in that subject in any other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of Graduation in Science: Provided always that every candidate for graduation shall produce evidence of having satisfied the conditions with respect to the Preliminary Examination, and shall be examined in all the subjects necessary for graduation by the Examiners of the University.

3. So soon as within the University provision is made for the instruction of women in all subjects qualifying for graduation in which provision is made for the instruction of men, the conditions for the graduation of women shall be the same as the conditions for the graduation of men.

4. (1) Women who attend classes in the University must matriculate, paying a fee of the same amount as that exigible for other students. (2) Women, who are candidates for graduation but not matriculated students, and who may attend classes in Edinburgh, under the provisions above set forth, must, at the commencement of each year of such attendance, enrol their names in a book to be kept in the University for that purpose, paying a fee of the same amount as the Matriculation Fee paid by students of the University; and having, in respect of such payment, a right to the use of the Library of the University.

Provision has been made within the University for the instruction of women students in the subjects qualifying for graduation in Pure Science, except in the subjects of Human Anatomy, including Anthropology, Physiology, and Zoology. But the Advanced Courses in Zoology, and the Course of Advanced Practical Physiology in the University may be attended by women students for purposes of graduation in Science. Women who have received the requisite instruction in Anatomy, etc., Physiology and Zoology in any other University or Institution already approved by the Court for the graduation of men, or under any teacher recognised for the purpose,¹ will, subject to the provisions of Ordinance No. 18, General No. 9 (Regulations for the Graduation of Women, etc.), be admitted to examination in these subjects for graduation in Science.

¹ Teacher recognised—Miss M. I. Newbiggin, D.Sc. (Zoology, 1st B.Sc. Exam.).

DAILY TIME-TABLE OF GRADUATION COURSES FOR FIRST EXAMINATION IN PURE SCIENCE.

Hour.	Autumn Term.	Spring Term.	Summer Term.
9-10	Mathematics (Mon., Wed., Fri.). (1st Ordinary).	Mathematics (Mon., Wed., Fri.).	Mathematics (Mon., Wed., Fri.).
10-11	Chemistry (Mon., Wed., Fri.). (Tutorial, Tu. or Th.)	Chemistry (Mon., Wed., Fri.). (Tutorial, Tu. or Th.)	Chemistry (Mon., Wed., Fri.). (Tutorial, Tu. or Th.) Practical Zoology (10-12).
11-12	Natural Philosophy (Mon., Wed., Fri.).	Natural Philosophy (Mon., Wed., Fri.).	Natural Philosophy (Mon., Wed., Fri.). Practical Zoology (10-12).
12-1	Mathematics (Mon., Wed., Fri.). (2nd Ordinary). Chemistry Medical Class, daily, open to Science Students only under special conditions. Zoology—Elementary.	Mathematics (Mon., Wed., Fri.). Chemistry Medical Class, daily, open to Science Students only under special conditions. Practical Elementary Zoology.	Mathematics (Mon., Wed., Fri.). Elementary Zoology.
1-2	...	...	...
2-3	Botany (Tu., Th.).	Botany (Tu., Th.).	Botany (Tu., Th.).
3-5	Practical Botany (Tu., Th.).	Practical Botany (Tu., Th.).	Practical Botany (Tu., Th.).

Hours for Laboratory Work in Chemistry and Natural Philosophy must be specially arranged for each student.

DAILY TIME-TABLE OF GRADUATION COURSES FOR FINAL EXAMINATION
IN PURE SCIENCE.

Hour.	Autumn Term.	Spring Term.	Summer Term.
8-10	...	...	Histology.
9-10	Dynamics (Mon., Wed., Fri.). Botany—Intermediate. ¹ Botany—Advanced. ¹ Regional Anatomy. Chemistry—Advanced (Tu., Th.).	Heat (Mon., Wed., Fri.). Botany—Intermediate. ¹ Botany—Advanced. ¹ Regional Anatomy. Chemistry—Advanced (Tu., Th.).	Electricity—Intermediate (Mon., Wed., Fri.). Quaternions (Mon., Wed., Fri.). Botany—Advanced. ¹ Chemistry—Advanced (Tu., Th., Fri.).
10-11	Mathematics—Advanced. Chemistry—Intermediate (Mon., Tu., Wed.). Physiology.	Mathematics—Advanced. Chemistry—Intermediate (Mon., Tu., Wed.). Physiology.	General Physics—Advanced (Mon., Wed., Fri.). Chemistry—Intermediate (Mon., Tu., Wed.).
11-12	Mathematics—Intermediate. Plant Physiology. Anatomy. Experimental Physiology (11-1).	Mathematics—Intermediate. Electricity II. (Tu., Th.) Anatomy. Chemical Physiology (11-1).	Mathematics—Intermediate (Mon., Wed., Fri.). Function Theory. Plant Physiology. Histology (11-1). Petrology (11-1) (Mon., Wed., Fri.).

12-1	Electricity I. (Mon., Wed., Fri.). Physical Optics (Tu., Th.). Chemical Physiology — Advanced. (Hours to be arranged.)	Dynamics—Advanced (Mon., Wed., Fri.). Morphology of Vertebrata. Chemical Physiology (11-1).	Histology (11-1). Petrology (11-1) (Mon., Wed., Fri.).
1-2	Comparative Embryology (Pract. before and after).		Practical Geology. Anthropology (Mon., Wed., Fri.).
2-3	Practical Geology (2-4) (Mon., Wed., Fri.).	Practical Geology (2-4) (Mon., Wed., Fri.). Experimental Physiology—Advanced (2-4)	Zoology—Invertebrata (2-5) (Mon., Wed., Fri.).
3-4	Astronomy (Tu., Wed., Th.). Practical Geology (2-4) (Mon., Wed., Fri.).	Astronomy (Tu., Wed., Th.). Practical Geology (2-4) (Mon., Wed., Fri.). Experimental Physiology—Advanced (2-4)	Astronomy (Tu., Wed., Th.). Zoology—Invertebrata (2-5) (Mon., Wed., Fri.).
4-5	Geology (Mon., Wed., Fri.). Palaeontology.	Geology (Mon., Wed., Fri.). Applied Anatomy.	Geology (Tu., Th.). Zoology—Invertebrata (2-5) (Mon., Wed., Fri.).
5-7	Astronomy (Friday) at Observatory. Astronomy (Friday) at Observatory. Astronomy (Friday) at Observatory.		

1 The Lectures in Botany are held at suitable hours during the forenoon. Laboratory Work on the Intermediate Standard is from 9 till 1, during the Autumn and Spring Terms. Laboratory Work on the Advanced Standard is from 9 till 5.

GRADUATION IN ENGINEERING.

* * Before deciding upon their courses of study, all Engineering students are strongly advised to consult the Professor of Engineering.

REGULATIONS AND CURRICULUM FOR DEGREES IN ENGINEERING.¹

N.B.—*Paragraphs headed with Roman Numerals are from the Ordinance, No. 21 of the Scottish Universities Commissioners.*

The Engineering Department of the University is located in the large new block of buildings at High School Yards. This block of buildings, which was completed during the winter session 1905-6, includes lecture rooms, a large drawing office, laboratories for Hydraulics, Strength of Materials, and Experimental Mechanics, and large workshops. A full account of the buildings is given in Appendix I., CALENDAR, 1906-7.

I. Two degrees in Science in Engineering are conferred by the University of Edinburgh—viz., Bachelor of Science in Engineering and Doctor of Science in Engineering.

Preliminary Examination.

II. See earlier section, pages 85 to 104.

Courses of Instruction.

III. (1) Candidates must, in the course of not less than three academical years (*i.e.*, three Winter Sessions and two Summer Sessions), attend at least the eleven courses of Instruction prescribed under Section VIII. hereof.

(2) It is the duty of the Senatus to determine from time to time which of the said courses are full and which are half courses respectively, and also to determine the number of meetings of which such full courses and half courses respectively shall consist, and to report its determination to the University Court for its approval.

IV. (1) Five full courses or their equivalent (counting two half courses as one full course) must be taken in the University of Edinburgh, and must include the necessary courses in Engineering, except where the

¹ Students who have taken the degree of B.Sc. in Engineering, and have had some practical training in the office of an engineer, are eligible for appointment to the Public Works Department of the Indian Government. Full particulars as to these appointments can be obtained from Prof. Hudson Beare.

University Court, after consultation with the Senatus, sees fit to allow one of the courses in Engineering to be taken outside the University under the provisions of the next sub-section.

(2) The remainder of the said courses may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science in Engineering:¹ Provided that the fees for attendance at an approved Institution in Edinburgh or under a recognised teacher there are not less than the fees exigible for the corresponding courses in the University of Edinburgh.

See Schemes of Study — University and Heriot-Watt College—pages 319 to 328.

V. The University Court may make regulations to enable candidates, not matriculated students of the University of Edinburgh, availing themselves of the permission to attend lectures at approved institutions or by recognised teachers in Edinburgh to obtain, on payment of a fee not exceeding in amount the matriculation fee paid by the students of the University, a right to the use of the Library of the University.

VI. (1) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Senatus a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus transmits such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(2) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Faculty of Science, for its consideration, syllabuses of the subjects and books proposed for the work of their classes during the next academical year. The Faculty of Science transmits such syllabuses, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VII. The provisions of the preceding section do not apply to approved Institutions or recognised teachers outside Edinburgh; but the University Court will not grant or continue recognition to any Institutions or teachers unless it is satisfied that their courses of instruction are equivalent to the courses sanctioned in the University of Edinburgh.

[There is a Joint Advisory Committee on Engineering Studies, consisting of the Professors of Mathematics, Natural Philosophy, Chemistry, and Engineering, and the Dean of the Faculty of Science, together with representatives of the Governors of George Heriot's Trust.]

Subjects of Study.

VIII. The subjects of study shall be as follows:—

- 1, 2. Mathematics, including Analytical Geometry, Spherical Trigonometry, and Differential and Integral Calculus.

¹ See p. 376.

3. (a) Natural Philosophy Lectures, (b) Natural Philosophy Laboratory Work.¹
4. (a) Chemistry Lectures, (b) Chemistry Laboratory Work.²
- 5, 6. Two Courses in Practical work in Drawing.
- 7, 8, 9. Three Courses in Engineering, including Engineering Laboratory Practice, and Field Work.
10. Applied Mathematics (Dynamics, including Elasticity).
11. One of the following :—
 - (a) Engineering Laboratory Practice, Advanced Work—Civil, Mechanical, or Electrical.
 - (b) Electrical Engineering.
 - (c) Geology and Mineralogy.

FIRST SCIENCE EXAMINATION.

See Synopses of Courses, pages 329-30.

IX. (1) There is a First Science Examination in the three following subjects, viz. :—(1) Mathematics, (2) Natural Philosophy, (3) Chemistry ; and the examinations in Natural Philosophy and in Chemistry are, so far as possible, practical.

The examination in Geometrical Drawing may be taken either at the First or at the Final Science Examination.

(2) The examination in Mathematics includes the higher branches of Mathematics specified under Mathematics in the section immediately preceding ; but it is optional to candidates to pass the same examination in this subject as that required for the ordinary degree of M.A., provided that in that case they will be required, before graduation, to pass an examination in the remainder of the subject.

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed.

The following Classes in the University qualify for the First Science Examination in Engineering :—

Mathematics—First Technical Course.—Daily, from 9 to 10, in Autumn and Spring Terms ; Mondays, Wednesdays, Fridays, 9 to 10, in Summer Term. Second Technical Course.—Daily, from 11 to 12, in Autumn and Spring Terms (Second Year).

Natural Philosophy Class (including Laboratory work).—Daily, from 11 to 12, in three Terms.

Chemistry Class and Laboratory (First Year's Course).—See under Pure Science.

¹ The course in Natural Philosophy consists of lectures, together with 50 hours of Laboratory work.

² Elementary Science Courses (see p. 380).

Outline of Subjects of Examination.

MATHEMATICS.

There are two papers each of three hours, the first on a lower, the second on a higher standard. Candidates may present themselves for examination in the first paper whenever they have duly completed the first part of the complete Technical Mathematics course. The use of the calculus is not excluded from the first or lower paper.¹ The second paper may be taken as part either of the first or second B.Sc. examination in Engineering.

First Paper.—Subjects:—Mensuration; Plane Trigonometry with reference to Surveying, including trigonometrical solution of plane triangles, involving the use of logarithmic tables (to be brought by the candidates); Elementary Spherical Trigonometry; Elementary Algebra, including calculations with and without the use of logarithms; the use of Graphic Methods (involving the use of drawing instruments and ruled papers to be brought by the candidates); Elementary Co-ordinate Geometry, including Curve Tracing; some elementary parts of the Differential and Integral Calculus; Simple Practical Applications of these subjects.

Second Paper.—The subjects of the First Paper on a somewhat higher standard, and in addition:—Elementary Spherical Trigonometry, with practical applications; Elementary Co-ordinate Geometry, Curve Tracing, and an introduction to Solid Geometry; Differential and Integral Calculus, including elementary applications to curves, maxima and minima, parametric equations, functions of more than one independent variable, lengths, areas, volumes, curvature, centres of mass, moments of inertia; Simple Differential Equations; Practical Applications of these subjects, chiefly from the engineer's point of view.

NATURAL PHILOSOPHY.

The examination is the same as for the First B.Sc. in Pure Science. Candidates must submit to the Examiners properly authenticated records of 50 hours of Laboratory work.

CHEMISTRY.

The Written Examination will be similar to that for Pure Science.

The Practical Examination, whilst of the same general character as the corresponding examination for B.Sc. in Pure Science, will be specially directed to substances of importance to Engineering Students, and will not be held as equivalent to the Practical Examination in Chemistry for Pure Science.

¹ A candidate who has passed the M.A. examination in Mathematics in this University is exempted from the first of these papers.

FINAL SCIENCE EXAMINATION.

See Synopses of Courses, pages 330 to 347.

See also Time-Tables, pages 319 to 328.

X. (1) There is a Final Science Examination in the remaining subjects specified in Section VIII.; and, if required, in the higher branches of Mathematics as provided in Section IX., Sub-section 2.

(2) Candidates may present themselves in one or more of these subjects at any examination after they have passed the whole of the subjects in the First Science Examination and have attended the required courses in the subjects professed, provided that for this purpose subjects 5, 6, 7, 8, and 9, specified in Section VIII., shall form one subject.

XI. A candidate for the degree of B.Sc. in Engineering is not deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XII. It is competent to the Examiners for the degree of B.Sc. in Engineering to report that a candidate has passed with special distinction in one or more of the subjects professed by him; and in such a case a diploma is given setting forth the subjects in respect of which the degree has been granted, and the subject or subjects in which special distinction has been obtained.

XIII. It is competent to the University Court to modify from time to time the provisions as to the curriculum, in case such modification be rendered desirable by the development of Engineering Science, or in consequence of further provisions having been made within or without the University for the study of any branch of the said Science: Provided that in no case shall the number of full courses of study required be less than the number required for the degree of B.Sc. in Pure Science.

The following classes in the University qualify for the Final Science Examination in Engineering:—

1. Drawing—Class of Engineering and Mechanical Drawing during two Winter Sessions and two Summer Sessions.
2. Engineering—(a) The Junior and Senior Classes of Engineering during two Winter Sessions. (b) Class of Engineering Field-Work, held in Summer.
3. Applied Mathematics—Advanced Course of Dynamics and Elasticity: Winter Session.
4. Engineering Laboratory, or Geology and Mineralogy—A three months' Course in either.

Outline of Subjects of Examination.

DRAWING.

The *First Paper* embraces all the subjects of instruction dealt with in the Junior Drawing Course of Three Terms, and also in the Course of Junior Engineering.

The candidate may sit for this paper at any examination held after attendance on the Courses of Instruction, but he will not be held to have passed until he have passed in the remaining Engineering subjects.

(See Sections IX. and X. of Regulations.)

The *Second Paper* consists of the Design of Structures or Machines from data supplied, and the making of detailed drawings from the candidate's own designs.

ENGINEERING.

Field-Work.—Surveying; Levelling; Setting out of Work; Calculation of Quantities.

Properties of Materials.—General Properties, with special knowledge of the purposes to which they are applied, and some knowledge of the processes employed in their manufacture.

Strength and Elasticity of Materials.—Stress, Strain, and Elasticity, Beams and Bending Stresses, Struts and Columns, Torsion and Shear, Compound Stresses, Deflection of Girders, and Theorem of Three Moments.

Strength of Structures.—Reciprocal Figures, Stresses in Braced Structures, Incomplete and Redundant Frames, Travelling Loads and Wind Stresses, Rigid and Hinged Arches, Earth Pressures, Retaining Walls and Foundations, Stability of Masonry, Concrete and Brickwork Structures.

Hydraulics.—Steady and Unsteady Motion, Bernouilli's Theorem, Laws of Flow through Orifices and Notches, Laws of Fluid Friction, Flow in Pipes, Channels, Gauging of Flow of Streams, Impact of Water on Surfaces.

Design of the Elements of Machines, including Belt and Rope Gearing, Wheel Trains and Teeth, Bevil Gearing, Cams, etc.

Design of Combined Structures.—An elementary knowledge of the design of Bridges and Roofs, of Reservoirs, Embankments, collecting and distributing machinery of Waterworks, and of the main features of Railway Construction, Harbours, and Drainage.

Design of Machinery.—An elementary knowledge of the design of the Steam Engine, stationary and locomotive, and of the Steam Turbine, and of Prime Movers driven by Water.

Prime Movers.—Theory of Heat Engine. The Hot Air Engine. The Steam Engine. Reciprocating Engines. Turbines. The Gas and Oil Engine. Turbines and Water Wheels. *Power Transmission*—Hydraulic, Electric.

Engineering Laboratory Practice.—The testing of materials; the testing of engines, steam, gas, and oil; the testing of boilers; the testing of hydraulic motors, etc.

APPLIED MATHEMATICS.

Dynamics of Particle: Vector quantities; Momentum; Force; Moments; Energy, kinetic and potential; Positional Forces, constant, central, gravitational; Motional and Frictional Forces; Sinusoidal or Vibratory Motion about position of Stability; Forces of Constraint.

Dynamics of Flexible Cords: Catenaries, belts, strings; Transverse Vibrations.

Dynamics of Rigid Bodies: Rotations and Spins; Centroides; Moment of Momentum; Moments and Axes of Inertia; Energy of Rotation; Gyroscopic Action.

Dynamics of Strain: Homogeneous Strain, compression, shear; Related Stresses; Incompressibility, Rigidity, Young's Modulus; Pressure in Tubes; Flexure, Torsion, Vibration of Bars.

ENGINEERING LABORATORY PRACTICE, MECHANICAL OR ELECTRICAL.**ELECTRICAL ENGINEERING.****GEOLOGY AND MINERALOGY.**

(*Qualifying Course.*—Class of Structural and Field Geology.)

Dynamical Geology.—Nature and operation of geological agents:—The Atmosphere, Rain, Terrestrial Waters, Ice, the Sea, Plants and Animals, Volcanoes, Movement of the Earth's Crust.

Mineralogy.—Physical and Chemical Characters of the more important and commonly occurring rock-forming minerals and ores.

Petrography.—Macroscopic and Microscopic Characters, Composition, Origin, and Distribution of Rocks.

Structural Geology.—Structure of Rock-Masses, Bedding, Joints, Cleavage, Foliation, Metamorphism, Faults, Unconformity.

Applied Geology.—The Applications of the Science to various Engineering Operations.

Heriot-Watt College.

In accordance with an agreement entered into between the University Court and the Governors of George Heriot's Trust for the purpose of arranging a joint curriculum of study for the degree in Engineering Science, the following classes at the Heriot-Watt College have been recognised by the University Court as qualifying for the First Science Examination and the Final Science Examination in Engineering.

Mathematics:—A two years' course qualifying for the First Science Examination, up to the standard required for the ordinary degree of M.A.; *Mechanics and Physics*, as equivalent to one course in Natural Philosophy;

Chemistry and the Chemical Laboratory; Electrical Engineering, including lectures and laboratory practice; *Engineering*:—Lectures, Mechanical Drawing, and Laboratory practice.

See Time-Tables, pages 319 to 328.

Post-Graduate Courses for Students of Engineering, etc.

There are facilities in the Engineering Laboratory of the University for post-graduate work in Strength of Materials and Hydraulics for graduates who purpose devoting themselves to Civil Engineering. In the Heriot-Watt College there is a post-graduate course of instruction in Electrical Engineering for graduates who have taken Electrical Engineering as one of their optional subjects.

Doctorate of Science in Engineering.

XIV. Graduates of the University of Edinburgh who have held the degree of B.Sc. in Engineering for five years, may offer themselves for the degree of D.Sc. in Engineering.

XV. A candidate for the degree of D.Sc. in Engineering must present a Thesis,¹ or a published memoir or work, to be approved by the Senatus on the recommendation of the Faculty of Science: Provided that, if required by the Senatus, the candidate must pass such examination as may be determined. The Thesis must be a record of original research undertaken by the candidate, or of important engineering work designed by himself, and actually carried out, and must be accompanied by a declaration, signed by him, that these conditions have been satisfied.

General.

XVI. Candidates who produce certificates that they have satisfied all the conditions prescribed by these Regulations, and who have passed the necessary examinations, will be entitled to receive the degrees of B.Sc. in Engineering and D.Sc. in Engineering, as the case may be, on the payment of the fees required.

XVII. A student who, when these Regulations came into operation, had completed a part of his course of study with a view to graduation in Science in Engineering in the University of Edinburgh, under regulations in force at the time, and who thereafter completes his course of study and passes the necessary examinations in conformity with such regulations, or with the provisions hereof, may become a candidate for the degree of B.Sc. in Engineering.

XVIII. The degrees of B.Sc. and D.Sc. in Engineering are in no case conferred on persons who have not complied with the above conditions, and are not conferred *honoris causâ tantum*.

¹ The Thesis must be lodged with the Dean of the Faculty, on or before 31st December for March Graduation, on or before 1st May for July Graduation.

GRADUATION IN PUBLIC HEALTH.

REGULATIONS AND CURRICULUM FOR DEGREES IN PUBLIC HEALTH.

I. Two degrees in Science in Public Health are conferred by the University of Edinburgh, viz., Bachelor of Science in Public Health and Doctor of Science in Public Health.

Bachelor of Science.

II. Candidates for the degree of B.Sc. in Public Health must be graduates in Medicine of a University of the United Kingdom, or of some other University recognised for the purpose by the University Court of the University of Edinburgh.¹

III. Candidates must be matriculated for the year in which they appear for examination or graduation.

(A) First Examination.

IV. Candidates for the degree of B.Sc. in Public Health, before proceeding to the first examination, must produce evidence (1) that, after their graduation in Medicine, they have practically studied Bacteriology, the Pathology of the Diseases of Animals transmissible to man, and Chemistry as applied to Public Health, for at least twenty hours per week, during a period of not less than eight months, of which at least five consecutive months must be in the Public Health Laboratory of the University of Edinburgh, and the remainder in the foresaid Laboratory, or in a Public Health Laboratory recognised for the purpose by the University Court;² and (2) that they have attended in the University of Edinburgh or elsewhere, in addition to the course of lectures in Physics qualifying for graduation in Medicine, such further course in Physics as the Senatus Academicus, with the approval of the University Court, shall deem necessary,³ and such a course of lectures in Geology, extending over not less than three months, as the Senatus, with the like approval, shall deem sufficient and appropriate.

The Courses in this University which at present qualify are the Laboratory Course in Physics for Students in Public Health, and either the Class of Geology and Mineralogy or the Summer Course in Structural and Field Geology.

¹ *Universities specially recognised under this section:*—University of Brussels; University of Würzburg; McGill University, Montreal; University of Harvard, U.S.A.; Queen's College, Kingston, Ontario, Canada.

² *Public Health Laboratories recognised under this section:*—University, Birmingham; Liverpool School of Science and Technology; King's College, University of London; University of Aberdeen; Pasteur Institute, Paris; University of Cambridge; The Army Medical College, London; Government Bacteriological Institute, Hong Kong; Dr William Robertson, Edinburgh (Course of Lectures on Public Health); Dr William R. Smith, Royal Institute of Public Health.

³ *Teacher recognised under this sub-section:*—Dr Dawson Turner, Edinburgh (Practical Physics).

(B) Second Examination.

V. Candidates for the degree of B.Sc. in Public Health are not admitted to the second examination for the degree sooner than eighteen months after having taken their degree in Medicine, nor sooner than six months after having passed their first examination for the degree of B.Sc. in Public Health. They must have attended, subsequent to Graduation in Medicine, two separate courses in Public Health in the University of Edinburgh, or in any University of the United Kingdom, or any Indian, Colonial, or Foreign University recognised for the purpose by the University Court, or in such Medical School or under such teacher as may be recognised or approved for the purpose by the University Court, each course consisting of forty lectures at least; one of these courses shall deal with Medicine and the other with Engineering, each in its relation to Public Health, in such manner as the Senatus Academicus, with the approval of the University Court, shall determine.

They must also give evidence that, subsequent to Graduation in Medicine, (1) they have, during three months, which must be separate and distinct from the period of Laboratory instruction, been diligently engaged in acquiring a practical knowledge of the duties, routine and special, of Public Health administration under the supervision of (a) a Medical Officer of Health recognised for this purpose by the General Medical Council; or (b) a Sanitary Staff Officer of the Royal Army Medical Corps, having charge of an Army Corps, District or Command, recognised for this purpose by the General Medical Council; (2) that they have attended during three months the practice of an Hospital for Infectious Disease, at which opportunities are afforded for the study of methods of administration; and (3) that they have had three months' instruction in Mensuration and Drawing under a teacher recognised for this purpose by the University Court.

The lectures in this University which qualify are—(1) Advanced Course of Public Health and Sanitary Science, by the Professor of Public Health; and (2) the course of instruction (Theoretical and Practical) in Sanitary Engineering and Building Construction, by the Professor of Engineering, and the Class of Mensuration and Drawing, by the Lecturer on Drawing.

VI. There is a First Examination for the degree of B.Sc. in Public Health in (1) Laboratory Work, the examination being practical, written, and oral; (2) in Physics; and (3) in Geology: if an examination in Physics or Geology, as the case may be, qualifying for graduation either in Science or Arts has not previously been passed by the candidate.

Outline of Subjects of First Science Examination.

LABORATORY WORK.

(1.) *Examination of Water.*—Physical Properties, Chemical Properties, Microscopical Appearances, Pollution of Potable Waters.

(2.) *Examination of Air.*—Temperature, Pressure, Humidity; Carbonic Acid, Micro-organisms, Organic Matter, Noxious Emanations.

(3.) *Examination of Foods*.—Milk, Butter, Oleomargarine, Flour, Bread, Starchy foods, Sugar, Honey, Butcher meat, Fish, Vegetables.

(4.) *Examination of Beverages*. — Tea, Coffee, Cocoa, Alcoholic Beverages, Aerated Waters.

(5.) *Examination of Condiments*. — Pepper, Mustard, Vinegar, and Preserves; Examination of Lime Juice. Nutritive Value of Dietaries.

(6.) *Sewage*.—Examination of sewage and of effluents after treatment.

(7.) *Soils*. — Temperature, Humidity, Permeability, Chemical Composition, Gases of the Soil, Micro-organisms.

(8.) *Disinfectants and Deodorisers*.—Chemical Examination of the Materials; Determination of their comparative power.

(9.) *Building Materials*.—Chemical and Physical Properties.

(10.) *Clothing*.—Physical Properties of Clothing Materials.

(11.) *Bacteriology*.—Micro-organisms in relation to Epidemic and other Diseases. Culture and recognition of Pathogenic and Non-Pathogenic, Aerobic and Anaerobic, Micro-organisms.

PHYSICS.

(1.) *Properties of Solids and Fluids*.—Specific Gravity, Elasticity, Laws of Pressure, Surface Tension, Viscosity.

(2.) *Heat*.—Thermometers, Expansion, Hygrometry, Boiling-points, Specific Heat, Latent Heat.

(3.) *Light*. — Lenses, Refractive Indices, Photometry, Polarisation, Spectrum Analysis.

(4.) *Electricity*.—Current Strength, Resistance, Electrolytic Resistance, Batteries, Galvanometers.

GEOLOGY.

(1.) *Dynamical Geology*.—The nature and operation of Geological agents:—The Atmosphere, Rain, Underground Water, Rivers, Ice, the Sea, Plants and Animals, Volcanoes, Movements of the Earth's Crust.

(2.) *Mineralogy and Petrology*.—Characters of the more common and widely distributed minerals and rocks.

(3.) *Structural Geology*.—The structure of rock-masses, more especially Bedding, Inclination and Curvature, Joints, Faults. Water-supply and Draining in connection with Geological Structure. Nature and Origin of Soils and Sub-Soils.

VII. There is a Second Examination, written, oral, and as far as possible practical, for the degree of B.Sc. in Public Health in the following subjects, included in the course of instruction in Public Health—viz. (1) Sanitation, (2) Sanitary Law, (3) Vital Statistics, and (4) Medicine in its bearings on Public Health, and the examinations in these subjects are taken at one time. The examination in Sanitation, provided for under

this section, shall include Reports by the candidates on Dwellings, Workshops, Hospitals, and Sanitary Schemes generally.

Candidates for B.Sc. (Public Health) must conform to the Regulations of the General Medical Council for Diplomas in Public Health.

Outline of Subjects of Final Science Examination.

EPIDEMIOLOGY [MEDICINE IN ITS RELATION TO PUBLIC HEALTH].

The Causes of Endemic and Epidemic Diseases, as well as of Epizootics; of the Contagious or Infectious Diseases; and of those incidental to particular trades, or otherwise produced by the surroundings of the patient. Prophylaxis. Immunity. Vaccination against disease. Nature and Value of Vaccines.

SANITATION.

(1.) *Site, Environment, and Construction of Dwellings.*—Influence of Position, Aspect, and Climate; Meteorological and Geological Conditions; Soil and Drainage; Elements of Building Construction.

(2.) *Water Supply.*—Quantity per head; Relative Eligibility of available Sources of Supply; Estimation of yield; Methods of utilising various Sources of Supply; Storage, Subsidence, and Filtration; Distribution—(a) General, (β) Domestic; Causes, Detection, and Treatment of contaminated Supply.

(3.) *Air Supply.*—Quantity and Temperature, with knowledge of use of instruments employed in their Measurement; Causes and Detection of Impurities; Warming and Ventilation; Characteristics and Fitness of various methods in use.

(4.) *Excreta, Refuse, and Sewage.*—Character and Quantity of in (a) Urban, (β) Rural Districts—

A. Collection and Removal from (1) the Dwelling, (2) the Town or Village; Nature, Practical details, and maintenance of the several Methods employed.

B. Disposal: (1) Sanitary, (2) Insanitary methods; Precipitation, Filtration, Irrigation, Discharge; General details of necessary works.

(5.) *General Structural and Mechanical Details of Sanitary Works.*—Character, Fitness, and Qualities of Materials (Brick, Cement, Earthenware, Iron, Lead); Design, setting out, and laying of Sewers; Plumbing and Iron-work.

(6.) *Hospitals.*—Principles of Design and Construction.

(7.) *Infectious and Epidemic Diseases.*—Origin, Modes of Propagation, and Means of Prevention; Epizootics.

(8.) *Disinfectants.*—Selection and Application.

(9.) *Effects of Insanitary Conditions.*—Insufficient house accommodation, Vitiation of Air, Impure Water, Bad or insufficient Food.

(10.) *Unhealthy Occupations*.—Means of mitigating or removing their unhealthiness.

(11.) *Nuisances*.—Urban, Rural, and Domestic.

(12.) *Disposal of the Dead*.—Burial, Cremation.

N.B.—Candidates are required to be able to interpret plans submitted to them, and to illustrate their answers when necessary by sketches.

SANITARY LAW AND VITAL STATISTICS.

1. Sanitary Administration. Laws affecting Factories, Workshops, Mines, Common Lodging-houses, Removal of Refuse, Nuisances, Rivers Pollution, Alkali Works, Burial Grounds, Unwholesome Food, Adulteration of Food and Drugs. Sale of Poisons.

2. Methods of estimating Population. Death, Birth, and Marriage Rates. Mortality as affected by Age, Sex, and Occupation. Case Mortality. Life Tables.

Note.—In making calculations, the candidate will be expected to understand the use of Logarithms, the Slide Rule, and Arithmometer.

VIII. The Board of Studies for the Faculty of Science from time to time, with the approval of the Senatus, determines and announces the character of the instruction to be given in the Laboratory, and fixes the standard of the examinations.

IX. It is competent for the University Court, after consultation with the Senatus, to modify from time to time the provisions as to the work and instruction hereinbefore specified as necessary for graduating in Science in Public Health, in case such modification may be rendered desirable by the development of the Science of Public Health, or by increase of the facilities provided in the said University or elsewhere for the study of any branch of the said Science.

Doctorate of Science.

X. Graduates who have held the degree of B.Sc. in Public Health from the University of Edinburgh for a term of five years may offer themselves for the degree of D.Sc. in Public Health in the said University.¹

XI. Candidates for the degree of D.Sc. in Public Health must present a thesis, or a published memoir or work, to be approved by the Senatus, on the recommendation of the Faculty of Science, and are required to pass an examination in Public Health, and in such of its special departments as the Senatus, with the approval of the University Court, may determine.

¹ See also Regulations for Research Students taking D.Sc., p. 140.

Candidates for D.Sc. in Public Health may appear for examination in any one of the departments of knowledge required for the degree of B.Sc. in Public Health. They are required to submit the subject in which they propose to be examined for approval at least six weeks before the date of the examination. The thesis must be lodged on or before 1st February.

Thesis, or published memoirs or works, must be records of original research undertaken by the candidates, and must be accompanied by a declaration, signed by them, that the work has been done and the theses or memoirs composed by themselves.

General.

XII. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, are entitled to receive the degrees of B.Sc. in Public Health or D.Sc. in Public Health, as the case may be, on payment of the fees required.

XIII. Students who, at the time when these Regulations come into operation, have completed a part of their course of study with a view to graduation in Science in Public Health in the University of Edinburgh, under regulations in force at the time therein, and thereafter complete the course of study and pass the necessary examinations in conformity with such regulations, or with the provisions hereof, may become candidates for the degree of B.Sc. in Public Health.

XIV. The degrees of B.Sc. and D.Sc. in Public Health are in no case conferred on persons who have not complied with the conditions hereinbefore set forth, and are not conferred *honoris causa tantum*.

GRADUATION IN AGRICULTURE.

REGULATIONS AND CURRICULUM FOR THE DEGREE OF B.SC. IN AGRICULTURE.

N.B.—*Roman numerals indicate Sections of Ordinance No. 22 of the Universities Commissioners.*

I. A degree of Bachelor of Science in Agriculture is conferred by the University of Edinburgh.

Preliminary Examination.

II. See earlier section, pages 85 to 104.

Courses of Instruction.

III. (1) Candidates must, in the course of not less than three academical years (*i.e.*, three Winter Sessions, or two Winter Sessions and three Summer Sessions), attend at least eleven courses of instruction in subjects prescribed for examination under Section VIII. hereof.

(2) It is the duty of the Senatus to determine from time to time which of the said courses are full courses and which are half courses respectively, and also to determine the number of meetings of which such full courses and half courses respectively shall consist, and to report its determination to the University Court for its approval.

IV. (1) Five full courses or their equivalent (counting two half courses as one full course) must be taken in the University of Edinburgh, and must include the course in Agriculture and Rural Economy.

(2) The remainder of the said courses may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science in Agriculture:¹ Provided that the fees for attendance at an approved Institution in Edinburgh or under a recognised teacher there must not be less than the fees exigible for the corresponding courses in the University of Edinburgh.

(3) Residence and practical work at a farm is required of each candidate to such an extent and under such regulations as the Senatus, with the approval of the University Court, may from time to time appoint.

[The period of Residence and Practical Work has been fixed at not less than twelve months. Candidates must, *before presenting themselves for examination in the subject of Agriculture*, produce evidence of having fulfilled this requirement.]

¹ See page 376.

V. The University Court may make regulations to enable candidates, not matriculated students of the University of Edinburgh, availing themselves of the permission to attend lectures at approved Institutions or by recognised teachers in Edinburgh, to obtain, on payment of a fee not exceeding in amount the matriculation fee paid by the students of the University, a right to the use of the Library of the University.

VI. (1) It is the duty of the Professors and Lecturers annually, at the end of each winter session, to submit to the Senatus a scheme specifying what proportion of the courses is to be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus transmits such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(2) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Faculty of Science, for its consideration, a syllabus of the subjects and books proposed for the work of their classes during the next academical year. The Faculty of Science transmits such syllabus, with such observations as it may think fit to make thereon to the Senatus for its approval.

VII. The provisions of the preceding section do not apply to approved institutions or recognised teachers outside Edinburgh; but the University Court will not grant or continue recognition to any Institutions or teachers unless it is satisfied that their courses of instruction are equivalent to the courses sanctioned in the University of Edinburgh, where such exist.

Subjects of Study.

VIII. The subjects of study are as follows :—

1. Mathematics, or Biology (*i.e.*, Zoology and Botany).
2. Natural Philosophy (Lectures and Laboratory Work).
3. Chemistry, including Practical Chemistry.
4. Agriculture and Rural Economy.
5. Agricultural Chemistry.
6. Geology.
7. Veterinary Hygiene.
8. Agricultural Entomology.
9. Economic Science as applied to Agriculture.
10. A course in one of the following :—(a) Forestry; (b) Experimental Physics; (c) Engineering.
11. Engineering Field Work.

See ORDER OF STUDY AND EXAMINATION, page 414.

FIRST SCIENCE EXAMINATION.

IX. (1) There is a First Science Examination in the three following subjects—viz. (1) Mathematics, or Biology (*i.e.* Zoology and Botany); (2) Natural Philosophy; (3) Chemistry, including Practical Chemistry.

(2) The examinations in all these subjects is the same as the examination in these subjects for the degree of B.Sc. in Pure Science, as specified in the Regulations therefor.

The following courses in this University qualify for the First Science Examination in Agriculture:—

1. (1) **Mathematics**, as for the degree in Pure Science, or (2) **Biology (Zoology and Botany)**, as for Pure Science (see pp. 380-1).

2. **Natural Philosophy**, as for Pure Science (see p. 382).

3. **Chemistry**, full course, including Practical Work, as for Pure Science (see p. 382).

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed.

FINAL SCIENCE EXAMINATION.

X. (1) There is a Final Science Examination in the remaining subjects (4 to 11 inclusive) specified in Section VIII. hereof.

(2) Candidates may present themselves in any one or more of these subjects at any examination held after they have passed the whole of the subjects comprised in the First Science Examination, and have attended the required courses in the subjects professed.

The following courses qualify for the Final Science Examination in Agriculture:—

1. **Agriculture and Rural Economy**.—Full Course of about 100 Lectures and 10 Field Demonstrations. See also Advanced Agriculture, pp. 300 and 414.

2. **Agricultural Chemistry**.—Full Course, including Lectures and Practical Work, of about 120 hours (Agricultural College).

3. **Geology**.—Summer Course of 25 Lectures, 10 Demonstrations in Laboratory, and 8 Field Demonstrations.

4. **Veterinary Hygiene**.—Course of about 50 Lectures (Agricultural College).

5. **Agricultural Entomology**.—Full Course, including Lectures and Practical Work, of about 120 hours.

6. **Economic Science, as applied to Agriculture**.—Half Course of about 50 Lectures—the Political Economy Class in Arts till Christmas.

7. A course in one of the following:—

(a) **Forestry**.—Full Course of about 80 Lectures, with Field Demonstrations (Agricultural College).

(b) **Experimental Physics**.—Full Laboratory Course of 100 hours.

(c) **Engineering**.—Full Course of about 100 hours (Agricultural College).

8. **Engineering Field Work**.—Summer Course—Lectures, Drawing Office, and Field.

See ORDER OF STUDY AND EXAMINATION, page 414.

XII. A candidate for the degree of B.Sc. in Agriculture shall not be deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XIII. Candidates who produce certificate that they have satisfied all the conditions prescribed by these Regulations, and who have passed the necessary examinations, will be entitled to receive the degree of B.Sc. in Agriculture, on payment of the fees required.

XIV. A student who, at the time when these Regulations came into operation, had completed a part of his course of study with a view to graduation in Science in Agriculture in the University of Edinburgh, under regulations in force at the time therein, and who thereafter completes his course of study and passes the necessary examinations in conformity with such regulations, or with the provisions of these Regulations, may become a candidate for the degree of B.Sc. in Agriculture.

XV. The degree of B.Sc. in Agriculture shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causâ tantum*.

Outline of Subjects of Final Examination.

See Synopses of Courses, pages 352 to 362.

1. AGRICULTURE AND RURAL ECONOMY: ITS SCIENTIFIC PRACTICE.

1. *Definition of Agriculture*.—Aid given by the Allied Sciences.
2. *Surface Geology*.—Formation and Classification of Soils—their Physical and Chemical Properties. Importance of Organic Nitrogen. Indications of good or bad Soils—the Methods of Management.
3. *Drainage and Cultivation*.—Practice and Advantages of Drainage—Irrigation—Wet-Warping—Mixing or Top-Dressing—Claying—Marling—Chalking—Liming—Paring and Burning—Clay-Burning. The Effect on Soils of Cultivation and the Growth of Plants.
4. *Implements and Machines of the Farm*.—The Importance of their proper Construction and Careful Management.
5. *Steam Cultivation*.—Its Advantages and Disadvantages—Development of the "Darby" Land Digger. The Farm "Motor."
6. *The Motive Powers Employed on the Farm*.—1st, Man; 2nd, Horse; 3rd, The Mechanical Powers (Water, Wind, Compressed Air, Gas, Oil and Steam)—their Comparative Values and Advantages.
7. *Farm Servants*.—Their Labour and Wages—Day-work and Piece-work. Detailed and total costs of Horse and Hand Labour.
8. *Systems of Farming and the Importance of Rotations*.—Different Rotations and reasons why they are adopted.

9. *Our Farm Crops* (Grain, Root, Forage, and Hay Crops).—Their Selection and Growth; the Garton System of Plant Breeding—Mendel's "Laws of Inheritance"—Prevention of Insect Injuries and Diseases.

10. *Identification of Grasses and other Valuable Pasture Plants*.—Character and Habits of those of Importance—Detection of Adulterations—Regulations necessary to protect the Farmer in buying Seeds.

11. *The Management of Permanent Pasture*.—Proper Methods of making new Pasture—its After-treatment.

12. *Weeds in Pastures* and Means of Destroying them.

13. *Silage and the System of Ensilage*.—Its Advantages, etc.—Its Suitability and Unsuitability according to Locality.

14. *Manures*.—Farm-yard Manure—its proper Mixing, Storing, and Application—its great advantage as a General Manure. Special Manures and so-called Artificial—their Uses, Abuses, and Adulterations—the proper Times and Methods of their Application. The Value and Use of Liquid Manure and Town Sewage.

15. *Buildings and Fences*.—The proper Construction of Fences—the General Arrangement of Farm-Buildings—the best Flooring and Inside Plans and Dimensions of Byres, Cattle-Sheds, Stables, etc.—Covered Yards—Ventilation—Drainage of Houses and Farm-yards.

16. *Live-Stock, embracing Cattle, Pigs, Horses, Sheep*.—The Various Breeds of each, and suitability of some to Local Conditions—"The Principles of Breeding." Feeding and Management—Cost of Feeding—Proper Mixtures of Food to Use. Cost of the Production of a Stone of Beef, Mutton, and Pork, showing the Amount of Profit in each Case.

17. *Dairying in all its Branches*, including the suitability or otherwise of surrounding Conditions—the proper Classes of Dairy Stock to keep, and their Management—the Treatment of Milk, and its Sale or Manufacture into Cheese, Butter, etc.

18. *Feeding Stuffs*.—Suitability of the Common Food Substances to the Different Classes of Farm Stock—The Purchase, Storing, and Administration of the same—their Manurial Residues.

2. AGRICULTURAL CHEMISTRY.

The subjects of examination are detailed in the Lecture Syllabus (see page 357). There is also a Practical Examination.

3. GEOLOGY.

1. *Dynamical Geology*.—Nature and operation of Geological agents; The Atmosphere, Rain, Terrestrial Waters, Ice, the Sea, Plants and Animals, Volcanoes, Movement of the Earth's Crust.

2. *Mineralogy*.—Physical and Chemical Characters of the more important and typical species in the various mineral groups—more especially Rock-forming Minerals.

3. *Petrography*.—Macroscopic and Microscopic Characters, Composition, Origin, and Distribution of Common Rocks.

4. *Structural Geology*.—Structure of Rock-masses, Bedding, Joints, Cleavage, Foliation, Metamorphism, Faults, Unconformity.

5. *Applied Geology*.—Nature and Origin of Soils and Subsoils ; Draining in connection with Geological Structure ; Mineral substances used as Manures.

4. VETERINARY HYGIENE.

1. The Comparative Osteology (rudimentary) of the Horse, Ox, and Sheep.

2. The Physiology of Dentition in Horse, Ox, Sheep, and Pig, more especially as indicative of the Age of the Animal.

3. The Physiology of Gestation ; the Diseases incidental to the pregnant state, and also those consequent to the act of parturition.

4. Description of the Digestive Organs of the Horse, Ox, and Sheep (separately), also their Physiology, and most ordinary Diseases.

5. Contagious and other Diseases of Farm Stock. Prevention and Treatment of Diseases.

5. AGRICULTURAL ENTOMOLOGY.

The subjects of examination are the subjects detailed in the Lecture Syllabus.

6. ECONOMIC SCIENCE.

See Syllabus in Arts : First Half of Course. See also special books prescribed, viz.—Taylor's *Agricultural Economics*, Nicholson's *Rents, Wages, and Profits in Agriculture*.

7. (a) FORESTRY.

The subjects included in the Course prescribed in page 362.

7. (b) EXPERIMENTAL PHYSICS.

The Measurement of Physical Constants, such as—Specific Gravity, Specific Heat, Conductivity, Dilatation, Refractive Index, Magnetic and Electric Quantities, etc.

7. (c) ENGINEERING.

1. *Mechanics*.—(a) Principles of Statics ; couples ; moments of forces ; parallel and inclined forces ; centre of gravity ; moments of inertia ; friction. (b) Principles of Kinematics and Kinetics ; Newton's laws of motion ; conservation and transformation of energy.

2. *Strength and Properties of Structural Materials*, including their fitness and adaptability.

3. *Strength and Stability of Structures*.—General knowledge of the design, construction, and maintenance of Roads, Roofs, Bridges, Embankments, Retaining Walls, Aqueducts, and General Buildings.

4. *Hydraulics*.—The laws governing the flow of Water in open and closed channels, and its discharge through orifices ; Systems of Drainage and Irrigation ; Pumps, etc.

5. *Mechanism and Machinery*.—General principles and means of transmission, conversion, and modification of motion; general millwright work, with special reference to the machines ordinarily employed for agricultural purposes.

6. *Prime Movers*.—A knowledge of the sources and modes of estimating power; the Steam Engine; Pneumatic Machines; Hydraulic Motors, Water-wheels, Turbines, etc.

8. ENGINEERING FIELD WORK.

Surveying, with special reference to Estate and Parish Surveying, Levelling, Gauging of Streams and Rivers, Plotting of Surveys and Sections, Setting out of Work, and Calculation of Quantities.

ORDER OF STUDY AND EXAMINATION FOR THE DEGREE OF B.SC. IN THE DEPARTMENT OF AGRICULTURE.

FIRST YEAR.

Autumn Term—

	Days.	Hours.
Chemistry Lectures	Mon., Wed., Fri.	10-11
Natural Philosophy Lectures	Mon., Wed., Fri.	11-12
Zoology Lectures ¹ (or Second Year)	Daily	12-1
Botany Lectures	Tues., Thur.	2-3
Botany (Practical)	Tues., Thur.	3-5

Chemical Laboratory, and Natural Philosophy Laboratory, as also Tutorial hours, to be arranged personally.

Spring Term—

Chemistry Lectures	Mon., Wed., Fri.	10-11
Natural Philosophy Lectures	Mon., Wed., Fri.	11-12
Zoology (Practical) ¹ (or Second Year)	Daily	12-1
Botany Lectures	Tues., Thur.	2-3
Botany (Practical)	Tues., Thur.	3-5

Laboratory Work, etc.—See above.

Examination in Zoology.

Summer Term—

Chemistry Lectures	Mon., Wed., Fri.	10-11
Natural Philosophy (probably Laboratory Work)		
Botany Lectures	Tues., Thur.	2-3
Botany (Practical)	Tues., Thur.	3-5

Laboratory Work, etc.—See above.

Examinations in Chemistry, Natural Philosophy, and Botany.

¹ When it is more convenient for the student to begin in Summer, this may be done (see under Pure Science, page 880); but the arrangement shown in the Table is preferable.

SECOND YEAR.*Autumn Term—*

	Days.	Hours.
Zoology Lectures (if not in First Year)	Daily	12-1
Agriculture	Daily	9-10
Agricultural and Horticultural Entomology	Mon., Wed., Fri.	2-4
Forestry (Agricultural College)	Daily	10-11
or Experimental Physics	Times to be arranged.	
or Engineering (Agricultural College)	{ Tues., Fri.	10-11
	{ Wed., 11-1 and 1.30-4	

Spring Term—

Zoology (Practical) (if not in First Year)	Daily	12-2
Agriculture	Daily	9-10
Agricultural and Horticultural Entomology	Mon., Wed., Fri.	2-4
Forestry (Agricultural College)	Daily	10-11
or Experimental Physics	Times to be arranged.	
or Engineering (Agricultural College)	{ Tues., Fri.	10-11
	{ Wed., 11-1 and 1.30-4	

Examinations in all subjects except Agriculture.

Summer Term—

Geology	Daily	4-5
Engineering Field Work	Mon., Wed., Fri.	10-4

Examinations in Geology and Field Work.

THIRD YEAR.*Autumn Term—*

Advanced Agriculture	{ Mon.	3-4
	{ Tues.	11-12
	{ Fri.	12-1 and 3-4
Agricultural Chemistry (Agric. College)	{ Mon., Fri.	2-3
	{ Tues.	12-1
Prac. Agric. Chemistry (Agric. College)	Tues., Thur.	2-5
Veterinary Hygiene (Agricultural College)	Mon., Thur., Fri.	11-12
Economic Science (Political Economy)	Daily	9-10

Examination in Economic Science (January).

Spring Term—

Advanced Agriculture	{ Mon.	3-4
	{ Tues.	11-12
	{ Fri.	12-1 and 3-4
Agricultural Chemistry (Agric. College)	Mon., Tues., Fri.	9-10
Prac. Agric. Chemistry (Agric. College)	Tues., Thur.	2-5
Veterinary Hygiene (Agricultural College)	Mon., Thur., Fri.	11-12
Law of Landlord and Tenant (Course held in alternate years)	Ten Lectures	9-10

Examination in all remaining subjects.

(See Regulation as to Residence and Practical Work on a Farm, page 408.)

DEGREE CONFERRED IN MARCH.

GRADUATION IN FORESTRY.

REGULATIONS AND CURRICULUM FOR THE DEGREE OF B.SC. IN FORESTRY.

N.B.—*Roman numerals indicate Sections of Ordinance No. 6 of the University Court of the University of Edinburgh.*

I. A degree of Bachelor of Science in Forestry is conferred by the University of Edinburgh.

Preliminary Examination.

II. See earlier section, pages 85 to 104.

Courses of Instruction.

III. (1) Candidates must, in the course of not less than three academical years, within the meaning of Ordinance No. 11 [General No. 6.—Regulations for Degrees in Arts], Section I., Sub-section (1), attend at least ten courses of instruction, in subjects prescribed for examination under Section VIII. of this Ordinance.

(2) It shall be the duty of the Senatus to determine from time to time which of the said courses shall be full courses and which shall be half-courses respectively, and also to determine the number of meetings of which such full courses and half-courses respectively shall consist, and to report its determination to the University Court for approval.

IV. (1) Five full courses, or their equivalent (counting two half-courses as one full course) must be taken in the University of Edinburgh, and must include the courses in Forestry.

(2) The remainder of the said courses may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science in Forestry: provided that the fees for attendance at an approved Institution in Edinburgh, or under a recognised teacher there, shall not be less than the fees exigible for the corresponding courses in the University of Edinburgh.

(3) Residence and practical work in forests shall be required of each candidate to such an extent and under such regulations as the Senatus, with the approval of the University Court, may from time to time appoint. See ORDER OF STUDY AND EXAMINATION, page 420.

V. The University Court may make regulations to enable candidates, not matriculated students of the University of Edinburgh, availing them-

selves of the permission to attend lectures at approved Institutions or by recognised teachers in Edinburgh, to obtain, on payment of a fee not exceeding in amount the matriculation fee paid by students of the University, a right to the use of the Library of the University.

VI. (1) It shall be the duty of the Professors and Lecturers annually, at the end of each winter session, to submit to the Senatus (through the proper Board of Studies and the Faculty of Science) a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus shall transmit such scheme, with such observations as they may think fit to make thereon, to the University Court for approval.

(2) It shall be the duty of the Professors and Lecturers annually, at the end of each winter session, to submit to the Faculty of Science (through the proper Board of Studies) a syllabus of the subjects and books proposed for the work of their classes during the next academical year. The Faculty of Science shall transmit such syllabus, with such observations as they may think fit to make thereon, to the Senatus for approval.

VII. The provisions of the immediately preceding section shall not apply to approved Institutions or recognised teachers outside Edinburgh; but the University Court shall not grant or continue recognition to any Institutions or teachers unless they shall be satisfied that the courses of instruction are equivalent to the courses sanctioned in the University of Edinburgh where such exist.

Subjects of Study.

VIII. The subjects of study shall be as follows:—

1. Zoology.
2. Botany.
3. Natural Philosophy (Lectures and Laboratory Work).
4. Chemistry, including Elementary Organic Chemistry.
5. Forest Botany, including Forest Mycology.
6. Agricultural Chemistry, including the Chemistry of Soils.
7. Geology.
8. Forest Zoology.
9. Forestry, theoretical and practical, in all its branches (three Courses—Introductory, Intermediate, and Advanced).
10. Elementary Engineering.¹
11. Geometrical Drawing and Surveying.¹

FIRST SCIENCE EXAMINATION.

IX. (1) There shall be a First Science Examination in the four following subjects, viz. (1) Zoology; (2) Botany; (3) Natural Philosophy; (4) Chemistry.

¹ Under the Ordinance these two subjects count as one "Course."

(2) The examination in all these subjects shall be of the same standard as the First Science Examination in these subjects for the degree of Bachelor of Science in Pure Science.

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed.

For Qualifying Courses and Subjects of Examination, see under PURE SCIENCE, pages 380 to 382. See also ORDER OF STUDY AND EXAMINATION, page 420.

FINAL SCIENCE EXAMINATION.

X. (1) There shall be a Final Science Examination in the remaining subjects (5 to 11 inclusive) specified in Section VIII. hereof.

(2) Candidates may present themselves in any one or more of these subjects at any examination held after they have passed the whole of the subjects comprised in the First Science Examination, and have attended the required courses in the subjects professed.

Outline of Subjects of Final Examination.

See Synopses of Courses, pages 362 to 370. See also ORDER OF STUDY AND EXAMINATION, page 420.

FORESTRY.

Intermediate Course.

The Subjects of Examination are those detailed in the Lecture Syllabus, see page 363, viz. :—

- The Foundations of Silviculture.
- Formation and Regeneration of Woods.
- Tending of Woods.
- Silvicultural Notes on Forest Trees.
- Forest Protection.
- Forest Administration.
- Practical Work.

Advanced Course.

The Subjects of Examination are those detailed in the Lecture Syllabus see page 364, viz. :—

- Mensuration.
- Valuation.
- Management.
- Working Plans.
- Utilisation.
- Practical Course.

FOREST BOTANY.

The vegetation and flora of forests: their relation to edaphic and atmospheric conditions.

The characteristic organographical (including anatomy) and physiological features of forest trees, native and cultivated, in Great Britain, both in their mature and their seedling stage; the systematic position of these trees.

The structure of the more important timbers.

FOREST MYCOLOGY.

The characters of the principal classes of the Fungi and Mycetozoa, with special reference to those forms causing diseases of trees. Description of the more important tree diseases, and methods of treatment and prevention.

FOREST CHEMISTRY.

The subjects of examination are detailed in the Lecture Syllabus (see page 367). There is also a Practical Examination.

GEOLOGY.

See under GRADUATION IN AGRICULTURE.

FOREST ZOOLOGY.

The Subjects of Examination are the subjects detailed in the Lecture Syllabus (see page 368).

ENGINEERING AND DRAWING.**Forest Engineering.**

Use, Characteristics, and Manufacture of Materials.—Brick, Stone, Lime, Mortar, Cement, Concrete, Ferro-concrete. Roofs of various types. Designs for Small Bridges, Culverts, etc. Road Construction and Drainage. Saw-Mills, Timber Slides, and Forest Tramways. Wire-rope Bridges and Tramways.

Engineering Drawing.

Use of Drawing Instruments; Construction of Scales; Reduction of Areas; Drawing Simple Curves; Projection of Simple Solids; Printing and Stencilling; Elementary Building Construction; Making of Detailed Drawings from Figured Sketches.

Surveying.

Surveying, Levelling, Gauging of Streams and Rivers, Plotting of Surveys and Sections, Setting out of Work, Calculation of Quantities.

General.

XI. A candidate for the degree of Bachelor of Science in Forestry shall not be deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XII. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the degree of Bachelor of Science in Forestry, on payment of the fees required.

XIII. The fee for admission to examination for the degree of Bachelor of Science in Forestry shall be six guineas, and the proportion of that sum to be paid by a candidate at each division of the examination shall be regulated from time to time by the University Court.

XIV. If a candidate is rejected in one or more subjects in any division of the examination, the University Court shall have power to charge a fee for re-admission to examination.

XV. The degree of Bachelor of Science in Forestry shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

ORDER OF STUDY AND EXAMINATION FOR THE DEGREE OF B.SC. IN THE DEPARTMENT OF FORESTRY.

FIRST YEAR.

Autumn Term—

	Days.	Hours.
Chemistry Lectures	Mon., Wed., Fri.	10-11
Natural Philosophy Lectures	Mon., Wed., Fri.	11-12
Zoology Lectures ¹	Daily	12-1
Botany Lectures :	Tues., Thur.	2-3
Botany (Practical)	Tues., Thur.	3-5

Chemical Laboratory and Natural Philosophy Laboratory, as also Tutorial hours, to be arranged personally.

Spring Term—

	Days.	Hours
Chemistry Lectures	Mon., Wed., Fri.	10-11
Natural Philosophy Lectures	Mon., Wed., Fri.	11-12
Zoology (Practical) ¹	Daily	12-1
Botany Lectures	Tues., Thur.	2-3
Botany (Practical)	Tues., Thur.	3-5

Laboratory Work, etc.—See above.

Examination in Zoology.

¹ When it is more convenient for the student to begin in Summer, this may be done (see under Pure Science, page 380); but the arrangement shown in the Table is preferable.

<i>Summer Term—</i>	Days.	Hours.
Chemistry Lectures.	Mon., Wed., Fri.	10-11
Natural Philosophy (probably Laboratory Work).		
Botany Lectures	Tues., Thur.	2-3
Botany (Practical)	Tues., Thur.	3-5

Laboratory Work, etc.—See above.

Examinations in Chemistry, Natural Philosophy, and Botany.

SECOND YEAR.

Autumn Term—

Introductory Forestry (Agric. College) .	Daily	10-11
Forest Engineering (with Drawing) .	Tu., Wed., Thur.	11-1
Forest Botany (including Practical) .	Mon., Wed., Thur.	2-5
Forest Mycology (including Practical) .	Tues., Fri.	2.30-5

Examination in Forest Engineering.

Spring Term—

Introductory Forestry (Agric. College) .	Daily	10-11
Intermediate Forestry	Daily	11-1
Forest Botany (including Practical) .	Mon., Wed., Thur.	2-5
Forest Mycology (including Practical) .	Fri.	2.30-5

Examinations in Forest Botany, and in Intermediate Forestry (Silviculture).

A Practical Forestry Course is taken during the Easter Vacation.

Summer Term—

Intermediate Forestry	Daily	9-10
Practical Forestry	Tues., Thur.	11-4
Surveying	Mon., Wed., Fri.	10-4
Geology	Daily	4-5

Examinations in Surveying and Geology. (The Examination in the remaining sections of Intermediate Forestry will be in October.)

A Practical Forestry Course, in Scottish forests, is taken during the Summer Vacation.

THIRD YEAR.

Autumn Term—

Advanced Forestry	{ Daily	9-1
	{ Tues.	9-12
Forest Chemistry (Agric. Coll.)	{ Mon., Fri. . .	2-3
	{ Tues.	12-1
Practical Forest Chemistry (Agric. Coll.)	Tues., Thur.	2-5
Forest Zoology (including Practical) .	{ Mon., Fri. . .	3-5
	{ Wed.	2-4

Spring Term—

	Days.	Hours.
Advanced Forestry	{ Daily	9-1
	{ Tues. . . .	9-12
Forest Chemistry (Agric. Coll.) . . .	{ Mon., Fri. . . .	2-3
	{ Tues. . . .	12-1
Practical Forest Chemistry (Agric. Coll.).	Tues., Thur. . . .	2-5
Forest Zoology (including Practical) .	{ Mon., Fri. . . .	3-5
	{ Wed. . . .	2-4

Examination in Advanced Forestry, Forest Chemistry, and Forest Zoology.

Summer Term—

This Term is devoted to Practical Forestry Work in Germany or France.

DEGREE CONFERRED IN JULY.

Qualifications of Candidates for Probationerships in the Indian Forest Service.

Students of Forestry of the University of Edinburgh intending to qualify as Candidates for Probationerships in the Indian Forest Service are required—

1. To hold the Degree of Bachelor of Science in Forestry of the University.
2. To have also passed a public examination of the University of an Honours standard in some branch of Natural Science.

The public examination of the University which enables students to satisfy the second requirement is the Final Examination in some branch of Natural Science embraced in the Degree in Pure Science.

GRADUATION IN VETERINARY SCIENCE.

REGULATIONS AND CURRICULUM FOR THE DEGREES OF B.SC. AND D.SC. IN VETERINARY SCIENCE.

N.B.—*Roman numerals indicate Sections of Ordinance No. 13 of the University Court of the University of Edinburgh.*

I. Two degrees in Veterinary Science are conferred by the University of Edinburgh, viz., Bachelor of Science in Veterinary Science and Doctor of Science in Veterinary Science.

II. Regulations shall from time to time be prescribed by the Senatus, with the approval of the University Court, for graduation in Veterinary Science, and these shall be administered by the Faculty of Science.

Preliminary Examination.

III. A candidate for the degree of Bachelor of Science in Veterinary Science must have passed the Preliminary Examination prescribed for degrees in Science. See earlier Section, page 85 to 104.

Professional Education.

IV. A candidate shall be admitted to the degree of Bachelor of Science in Veterinary Science only after he has fulfilled the following conditions:—

1. He must have been engaged in Veterinary study for not less than four academic years.
2. He must be a member of the Royal College of Veterinary Surgeons, or hold a Veterinary Diploma granted in a British possession or foreign country recognised by the said Royal College, and entitling him to be registered in the Register of Veterinary Surgeons.
3. During his curriculum he must have attended, in addition to the courses prescribed for the Diploma of Membership of the Royal College of Veterinary Surgeons, a course or courses of instruction on each of the following subjects:—

Practical Chemistry.—A course of not less than 30 hours.

Physics.—A course of not less than 50 hours, including lectures and practical work.

Advanced or Applied Botany and Zoology.—A course of not less than 25 hours in each subject, including lectures and practical work.

Anatomy of Domesticated Animals (including Embryology and Practical Anatomy).—A course of not less than 80 hours.

Histology.—A course of not less than 40 meetings of the class.

Experimental Physiology and Chemical Physiology.—A course of not less than 10 weeks in each subject.

Pathological Bacteriology.—A course of not less than 40 meetings of the class, including lectures and practical work.

Protozoology and Entomology.—A course of not less than 20 meetings of the class.

Sanitary Science and Veterinary Hygiene.—A course or courses of not less than 50 hours of practical work.

Genetics (Heredity and the Principles of Breeding).—A course of not less than 20 lectures.

The Senatus, with the approval of the University Court, shall determine from time to time the nature, range, duration, and the number of meetings of each course of instruction, and the form of the class certificate, and shall have power to make such alterations in the subjects of instruction and in the number of the courses as may be considered necessary for the improvement of Veterinary education.

Qualifying Courses.

See Synopses of Courses, pages 371 to 375. See also CALENDAR OF THE ROYAL (DICK) VETERINARY COLLEGE.

Practical Chemistry.—Work in addition to that required for the Veterinary Diploma, viz.:—Preparation of Pure Salts, Determination of Equivalents, Use of Balance, Further Exercises in Volumetric Analysis, Tests for the common Organic Elements and Compounds (Veterinary College).

Physics.—Course in Physics for Students of Medicine.

Botany.—Special Practical Course in Mycology and other matters bearing upon Veterinary Science: Summer Term.

Zoology.—Special Course on the Zoology of Domestic Animals: Summer Term.

Anatomy of Domesticated Animals (Lectures and Dissection).—Work in addition to that required for the Veterinary Diploma, viz.:—The Anatomy of the Dog, and the Embryology of the Domestic Animals (Veterinary College).

Histology.—Work, entirely practical, in addition to that required for the Veterinary Diploma, viz.:—Further methods of Technique, and their application (Veterinary College).

Experimental Physiology and Chemical Physiology.—Courses in these subjects for Students of Medicine.

Pathological Bacteriology.—Junior Course in Bacteriology, and additional work specially related to Veterinary Science.

Protozoology and Entomology.—The Course for the Diploma in Tropical Medicine and Hygiene, particularly those sections of the work which bear closely upon Veterinary Science.

Sanitary Science and Veterinary Hygiene.—Special Course—Lectures and Practical Work : Spring Term.

Genetics.—Course of 25 Lectures : Spring Term.

V. Attendance at the Royal (Dick) Veterinary College, Edinburgh, shall, subject to the provisions of this Ordinance, qualify, *pro tanto*, for admission to the University examinations for the degrees in Veterinary Science. The University Court shall, after consultation with the Senatus, have power to determine whether attendance at other Veterinary Colleges, and on courses of instruction in such institutions or under such teachers as may be recognised by the University Court as qualifying for admission to examination for degrees in Medicine or in Science, shall be recognised for admission to the University Examinations for Veterinary degrees.

VI. One year of study must be spent in the University of Edinburgh, and the University Court shall, after consultation with the Senatus, determine, from time to time, for purposes of graduation, the proportion of the courses of instruction to be taken in the University and the proportion to be taken in the Royal (Dick) Veterinary College, or in any other Veterinary College or any institution, or under any teacher recognised as above provided.

VII. Students attending at the Royal (Dick) Veterinary College, or at any other College or institution or under any teacher in Edinburgh recognised for the purpose of this Ordinance, with a view to graduation, shall enrol their names in a book to be kept in the University for that purpose, paying a fee of the same amount as the Matriculation Fee paid by the students of the University, and having in respect of such payment a right to the use of the Library of the University; but the University Court shall have power to allow any such student, who at any period in his Veterinary course determines to present himself for examination for the University degrees, and who has otherwise fulfilled the necessary conditions, to present himself, provided he shall have paid such matriculation fees as would have been exigible from him had he commenced his studies with a view to graduation.

Professional Examinations for Degree of Bachelor of Science in Veterinary Science.

VIII. The examination for the degree of Bachelor of Science in Veterinary Science shall consist of three divisions.

The University Court shall have power, in consultation with the Senatus, to alter the number of divisions and the subjects of examination in each division: also, on the Senatus being satisfied with the standard of the examinations, to recognise and accept a proportion of the examinations in the subjects required by this Ordinance passed by the candidate in a University or Veterinary College of the United Kingdom legally entitled to conduct such examinations, provided he has duly attended a recognised course of instruction in each of the subjects on which he has thus passed.

Each candidate shall be examined both in writing and orally, and also practically where the nature of the subject admits.

The subjects of examination in the First division shall be—Chemistry, Physics, Botany, and Zoology.

In the Second division—Anatomy (including Embryology and Histology) and Physiology.

In the Third division—Pathology (including Bacteriology, Protozoology, and Entomology), Genetics, and Sanitary Science and Veterinary Hygiene.

The Examination in each subject will deal with the matters embraced in the Synopsis of the Course of Instruction in that subject, as given on pages 371 to 375. See also "Qualifying Courses," page 424.

IX. Candidates may be admitted to an examination in all or any two or more of the subjects comprised in the First division on the production of the required certificates of attendance in each of the said subjects.

X. Candidates may be admitted to examination in one or both of the subjects of the Second division after having passed in all the subjects of the First division and on the production of the required certificates of attendance in each of the said subjects.

XI. Candidates who have passed in all the subjects included in the preceding divisions may be admitted to the Third or Final examination when they have completed four years of study, on the production of the required certificates of attendance in each of the said subjects.

XII. The examiners for degrees shall be selected by the University Court from the professors and lecturers in the University, whose courses of instruction qualify for the degree of Bachelor of Science in Veterinary Science, together with such additional examiners, to be appointed by the University Court, as the Court shall deem necessary.

XIII. If a candidate fail in one or more of the subjects of examination in any of the divisions, he shall not be admitted to re-examination until he has pursued his studies for such time, and subject to such conditions, as the Faculty of Science may prescribe.

XIV. Each candidate, when he has completed the Final examination, and before he can graduate, must deliver to the Secretary to the Senatus, or other official appointed for the purpose, a declaration in his own handwriting that he is 21 years of age or upwards.

XV. The fee for admission to each division of the examination for the degree of Bachelor of Science in Veterinary Science shall be such sum as the University Court may from time to time determine. See page 428.

XVI. If a candidate is rejected in one or more subjects in any division of the examination, the Court shall have power to charge a fee for re-admission to examination. See page 428.

XVII. Each candidate, before being admitted to examination in any subject or group of subjects, shall, if not a matriculated student for the academic year in which the examination takes place, pay a fee not exceeding the Matriculation Fee.

Degree of Doctor of Science in Veterinary Science.

XVIII. Graduates who have held the degree of Bachelor of Science in Veterinary Science from the University of Edinburgh for a term of three years, may offer themselves for the degree of Doctor of Science in Veterinary Science.

If not a matriculated student for the academic year in which the examination takes place, the candidate must pay a fee not exceeding the Matriculation Fee.

XIX. A candidate for the degree of Doctor of Science in Veterinary Science shall present a thesis, or a published memoir or work, to be approved by the Senatus on the recommendation of the Faculty of Science, on a subject bearing on Veterinary Science or Practice. The thesis shall be a record of original research undertaken by the candidate, and shall be accompanied by a declaration, signed by him, that the work has been done, and the thesis composed by himself.

XX. The Senatus shall appoint such professors and lecturers as it may think suitable to report on the thesis submitted for the degree of Doctor of Science, and the University Court shall, after consultation with the Senatus, appoint one or more additional examiners to act along with them. Such additional examiner shall be a person of recognised eminence in the subject of the thesis, memoir, or work which is to be submitted for approval.

XXI. The fee for admission to the examination for the degree of Doctor of Science in Veterinary Science shall be such sum as the University Court may from time to time determine. See page 428.

XXII. If a candidate is rejected, the Court shall have power to charge a fee for re-admission to examination. See page 428.

FEES FOR DEGREES OF B.SC. AND D.SC.

Pure Science and Engineering—

First Science Examination	£3 3 0
(or for each subject, £1, 1s.)	
Final Science Examination	3 3 0
Doctorate of Science	10 10 0

Public Health—

First Science Examination	£3 3 0
Final Science Examination	3 3 0
Doctorate of Science	10 10 0

Agriculture and Forestry—

First Science Examination	£3 3 0
(or for each subject, £1, 1s.)	
Final Science Examination	3 3 0

Veterinary Science—

First Division Examination	£2 2 0
(or for any group of subjects less than the whole Division, £1, 1s.)	
Second Division Examination	2 2 0
(or for each subject, £1, 1s.)	
Third Division	2 2 0
Doctorate of Science	10 10 0

Candidates for the degree of B.Sc. who fail to pass pay a fee of 10s. 6d. for re-examination in each subject; and candidates for D.Sc. pay a fee of £5, 5s. for each re-examination.

DEGREE EXAMINATIONS, ETC.

When names are not entered and fees paid, or a pass to the examination obtained where the fee has been previously paid, on or before the stated dates, an additional or late-entry fee of 10s. must be paid before the candidate can be admitted to examination. This fee will not be received after twelve o'clock of the last day but one preceding the examination for which the candidate desires to appear, without the express permission of the Dean of his Faculty and the subsequent sanction of the Senatus. A candidate must enter his name and pay the fee, or, when the fee has been previously paid, obtain a pass, for each periodical examination at which he desires to appear.¹

If, after payment of the fee, a candidate withdraws or fails to be present at the examination, the fee will not be repaid, but the candidate will be allowed to enter on one subsequent occasion for examination in the same subject, without payment of any additional fee. A new form must in this case be filled up by the stated date.

Class Certificates must be shown before the day of examination. When the candidate has exhibited the Certificates, the clerk will stamp on the receipt for the fee the words, "CERTIFICATES EXAMINED," which entitles the candidate to admission to the Examination Room.

Candidates for examination or for graduation must be Matriculated Students of the Academic year.

The fees for Matriculation, Examinations for Degrees, and Registration of Graduates as Members of the General Council, are payable at the Matriculation Office, University. Candidates who cannot pay the fees personally, should transmit them to JAS. DOWIE, University, Edinburgh, by *Money Orders* or *Postal Orders*, or by *Bank Drafts*, crossed "*Union Bank of Scotland (Hunter Square Branch), Edinburgh.*"

¹ On entering for the First Science Examination in Natural Philosophy, candidates must hand in the records of laboratory work to be submitted to Examiners, unless such records are already in the hands of the Professor.

On entering for the Final Science Examination, candidates who take Natural Philosophy on the higher standard must state in which of the subjects of the second stage they intend to present themselves.

ENTRY FOR GRADUATION.

Every candidate for graduation must produce certificates of having passed the necessary examinations, and pay the fee of £1 for Registration as a Member of the General Council, *not later than 4 o'clock of the last day but one preceding the Graduation.*

Degrees are conferred by the Chancellor or the Vice-Chancellor of the University. They are not conferred *in absentia*, except on very special cause shown. Candidates must appear in Academic costume, with the appropriate hood.¹

TIME-TABLES FOR SCIENCE EXAMINATIONS, 1914-1915.

First Science Examination.

(In all Departments.)

Date.		Subject.	Hours.
1914.			
Sept. 24	Thur.	Entries to be made from 22nd September to this date (office hours, 10 to 1).	
" 30	Wed.	Mathematics	2-4 4.30-6.30
Oct. 2	Fri.	Chemistry	10-12
" 3	Sat.	Mathematics (Engineering) { 1st paper 2nd paper	9-12 2-5
		Botany (Veterinary Science)	9-12
		Zoology (Veterinary Science)	2-5
" 6	Tues.	Natural Philosophy	4.30-6.30
" 7	Wed.	Natural Philosophy	9-11
1915.			
March 1	Mon.	Entries to be made from 25th February to this date (office hours, 10 to 4).	
" 8	Mon.	Laboratory Work (Public Health)	9-11
		Physics (Public Health)	12-2
		Geology (Public Health)	3-5
" 9	Tues.	Practical Work in Public Health Laboratory begins.	
" 18	Thur.	Physics (Veterinary Science)	2-4
" 19	Fri.	Botany	10-12
		Botany (Veterinary Science)	10-1
		Zoology	2-4
		Zoology (Veterinary Science)	2-5

¹ See "Academic Costume," on page 37.

Date.		Subject.	Hours.
1915. June 1	Tues.	Entries to be made from 26th May to this date (office hours, 10 to 4).	
" 18	Fri.	Natural Philosophy	12-2
" 19	Sat.	Mathematics	12-2
		Mathematics (Engineering) { 1st paper	9-12
		{ 2nd paper	2-5
" 21	Mon.	Natural Philosophy	9-11
		Mathematics	12-2
" 25	Fri.	Chemistry	9-11
" 26	Sat.	Physics (Veterinary Science)	12-2
" 28	Mon.	Botany	9-11
		Botany (Veterinary Science)	9-12
		Zoology	3-5
		Zoology (Veterinary Science)	2-5
		Laboratory Work (Public Health)	9-11
		Physics (Public Health)	12-2
		Geology (Public Health)	3-5

Final Science Examination.

PURE SCIENCE.

(Practical Examinations at times to be arranged.)

Date.		Subject.	Hours.
1914.			
Dec.	1 Tues.	Entries to be made on this date.	
"	7 Mon.	Geology (Intermediate) . . .	9-12
"	8 Tues.	Chemistry (Intermediate) . . .	9-12
"	9 Wed.	Astronomy (Intermed.) { (at University) { (at Observatory)	9-12 2-5
1915.			
March	1 Mon.	Entries to be made from 25th February to this date.	
"	10 Wed.	Botany (Intermediate) . . .	9-12
"	11 Thur.	Zoology (Intermediate) . . .	9-12
"	18 Thur.	Physiology (Advanced) . . .	1-4

Pure Science—Continued.

Date.		Subject.	Hours.
1915.			
Mar. 20	Fri.	Human Anatomy (incl. Anthropology) — 1st paper (Second Professional)	10-12 12-2
		2nd paper (Anthropology)	2-4
		Physiology (Intermediate)	
June 1	Tues.	Entries to be made from 26th May to this date.	
" 7	Mon.	Adv. Nat. Phil. (Advanced Dynamics)	9-12
		Intermediate Mathematics (1st paper)	2-5
" 8	Tues.	Advanced Mathematics (1st paper)	9-12
		Intermed. Nat. Phil. (Thermodynamics).	2-5
" 9	Wed.	Adv. Natural Philosophy (Electrostatics).	9-12
		Intermediate Mathematics (2nd paper)	2-5
" 10	Thur.	Advanced Mathematics (2nd paper)	9-12
		Intermediate Nat. Phil. (Anal. Dynamics)	2-5
" 11	Fri.	Adv. Natural Phil. (Electrokinetics)	9-12
		Intermediate Mathematics (3rd paper)	2-5
" 12	Sat.	Advanced Mathematics (3rd paper)	9-12
		Intermediate Nat. Phil. (Exp. Physics)	2-5
" 14	Mon.	Adv. Natural Philosophy (Quaternions)	9-12
		Advanced Mathematics (4th paper)	2-5
" 15	Tues.	Advanced Mathematics (5th paper)	9-12
		Advanced Natural Phil. (Exp. Physics)	2-5
" 16	Wed.	Adv. Nat. Philosophy (Pract. Physics)	9-12
" 17	Thur.	Advanced Natural Phil. (Physical Optics)	2-5
" 23	Wed.	Astronomy (Intermed.) { (at University) (at Observatory)	9-12 2-5
" 24	Thur.	Botany (Intermediate)	9-12
		Botany (Advanced)	1-3
" 25	Fri.	Chemistry (Intermediate)	9-12
		Chemistry (Advanced)	1-4
" 26	Sat.	Geology (Intermediate)	9-12
		Geology (Advanced)	1-3
" 30	Wed.	Zoology (Intermediate)	9-12
		Zoology (Advanced)	1-4
		Astronomy (Advanced) (at Observatory)	10-1
July 5	Mon.	Human Anatomy (incl. Anthropology) — 1st paper (Second Professional)	12-2
		2nd paper (Anthropology)	3-5
" 6	Tues.	3rd paper (Anat., incl. Embryol.)	9-11
		Physiology (Intermediate)	12-2

ENGINEERING.

Date.		Subject.	Hours.
1914.			
Dec. 1	Tues.	Entries to be made on this date.	
" 7	Mon.	Geology	1-3
1915.			
March 1	Mon.	Entries to be made from 25th February to this date.	
" 19	Fri.	Dynamics	9-12
June 1	Tues.	Entries to be made from 26th May to this date.	
" 14	Mon.	Engineering (Materials and Structures).	9-1
" 15	Tues.	Engineering (Machines and Heat Engines)	9-1
" 16	Wed.	Engineering (Hydraulics and Electrical Technology)	9-1
" 17	Thur.	Engineering (Advanced Materials and Structures)	9-12
		Engineering (Adv. Theory of Machines)	2-5
		Engineering (Advanced Hydraulics)	2-5
" 18	Fri.	Engineering (Civil Engineering, 1st paper)	9-12
		Engineering (Theory of Heat Engines, 1st paper)	9-12
		Engineering (Civil Engineering, 2nd paper)	2-5
		Engineering (Theory of Heat Engines, 2nd paper)	2-5
		Engineering (Elec. Engin'g., 1st paper).	2-5
" 21	Mon.	Engineering (Surveying)	9-12
		Engineering (Elec. Engin'g., 2nd paper)	9-12
		Engineering (Elec. Engin'g., 3rd paper)	2-5
" 22	Tues.	Engineering Drawing (1st paper)	9-1, 2-5
" 23	Wed.	Engineering Drawing (2nd paper)	9-1, 2-5
" 24	Thur.	Dynamics	9-12
" 26	Sat.	Geology	1-3

PUBLIC HEALTH.*(Oral and Practical Examinations at times to be arranged.)*

June 1	Tues.	Entries to be made from 26th May to this date.	
" 28	Mon.	Medicine	10-12
		Sanitary Law	1-3
		Vital Statistics	4-6
" 29	Tues.	Sanitation	10-12, 1-4

AGRICULTURE.

Date.		Subject.	Hours.
1914.			
Dec. 1	Tues.	Entries to be made on this date.	
" 7	Mon.	Geology	1-3
1915.			
Jan. 8	Fri.	Entries to be made on or before this date.	
" 12	Tues.	Economic Science	9-11
March 1	Mon.	Entries to be made from 25th February to this date.	
" 10	Wed.	Forestry	9-12
" 12	Fri.	Veterinary Hygiene	2-4
" 12	Fri.	Agriculture	9-12
" 12	Fri.	Agricultural Chemistry	1-3
" 15	Mon.	Agricultural Entomology	10-12
" 15	Mon.	Agricultural Entomology, Practical	2-4
" 17	Wed.	Engineering	9-12
" 17	Wed.	Experimental Physics	3-5
June 1	Tues.	Entries to be made from 26th May to this date.	
" 11	Fri.	Engineering, Field Work	10-1, 2-5
" 26	Sat.	Geology	1-3

FORESTRY.

1914.			
Sept. 24	Thur.	Entries to be made from 22nd September to this date.	
Oct. 12	Mon.	Intermediate Forestry (Protection and Policy)	9-12 2-4
Dec. 1	Tues.	Entries to be made on this date.	
" 7	Mon.	Geology	1-3
" 17	Thur.	Forest Engineering	2-4
1915.			
March 1	Mon.	Entries to be made from 25th February to this date.	
" 9	Tues.	Adv. Forestry (Mensuration and Valuation)	9-12

Forestry—Continued.			
Date.		Subject.	Hours.
1915.			
Mar. 11	Thur.	Advanced Forestry (Management and Working Plans) . . .	9-12
" 12	Fri.	Forest Chemistry . . .	1-3
" 15	Mon.	Forest Botany . . .	9-11
" 16	Tues.	Forest Zoology, Practical . . .	2-4
		Intermediate Forestry (Silviculture) . . .	9-12
		Advanced Forestry (Utilisation) . . .	9-12
		Forest Zoology . . .	2-4
June 1	Tues.	Entries to be made from 26th May to this date.	
" 11	Fri.	Surveying	10-12, 2-5
" 26	Sat.	Geology	1-3

VETERINARY SCIENCE.

1914.			
Sept. 24	Thur.	Entries to be made by this date.	
Oct. 2	Fri.	Histology	2-4
		Exper. Physiology and Physiol. Chem. . .	2-4
" 5	Mon.	Anatomy	9-11
1915.			
Mar. 1	Mon.	Entries to be made by this date.	
" 8	Mon.	Sanit. Sc. and Vet. Hyg.	9-11
" 19	Fri.	Protozoology and Entomology . . .	10-12
		Genetics	2-4
" 20	Sat.	Pathological Bacteriology . . .	9-11
June 1	Tues.	Entries to be made by this date.	
" 28	Mon.	Anatomy	9-11
July 5	Mon.	Protozoology and Entomology . . .	12-2
		Genetics	3-5
" 6	Tues.	Pathological Bacteriology . . .	9
		Histology	12-2
		Exper. Physiology and Physiol. Chem. .	12-2

Doctor of Science.

D.Sc. Candidates in Pure Science and in Engineering are required to lodge their Theses, and proof of their eligibility, with the *Dean of the Faculty of Science* at the Matriculation Office, and to pay the Fees, not later than 6th January, for March Graduation, or not later than 1st May, for July Graduation.

Candidates in Public Health are required to lodge their Theses and pay their fees on or before 1st February, and to intimate the subjects in which they desire to be examined to the Dean before 1st May. The examination will take place in June.

SCHOLARSHIPS, ENDOWMENTS FOR RESEARCH, BURSARIES, ETC.

(ARRANGED ALPHABETICALLY.)

Note.—The values of the Scholarships, etc., are stated *approximately*: the accuracy of the figures is not guaranteed.

Candidates must, except in cases where it is otherwise stated below, enter their names with the Clerk of Senatus as follows: ¹—

For those open in Spring, not later than 1st March.

“ “ Summer, “ 1st June.

ARNOTT (NEIL) SCHOLARSHIP IN EXPERIMENTAL PHYSICS. (Open June 1915.)

Awarded annually in June. (See under **Faculty of Arts.**)

BAXTER NATURAL SCIENCE SCHOLARSHIP.

This Scholarship was founded by Sir David Baxter, Bart., of Kilmarnon, in 1865, and is of the annual value of about £84, tenable for two years. It is awarded, on the result of the Final Examination for the Degree of Bachelor of Science, to the Student who is most distinguished in two or more of the Natural Science subjects—viz., Human Anatomy, including Anthropology; Physiology, including Histology; Geology, including Mineralogy; Zoology, including Comparative Anatomy; Botany, including Vegetable Histology—either in the year preceding a vacancy, or in the year in which a vacancy occurs. The holder is required to satisfy the Senatus Academicus that he has been pursuing his studies in Science during the first year of his tenure, in such manner as the Senatus may fix. It cannot be held with any other Scholarship, Fellowship, or Bursary, or with any situation yielding an annual income of more than £100. Open July 1916.

1914, AUGUSTA LAMONT, B.Sc.
JAMES LINDSAY SALMOND SMITH, M.A., B.Sc. } equal.

BAXTER PHYSICAL SCIENCE SCHOLARSHIP.

This Scholarship was founded by Sir David Baxter, Bart., of Kilmarnon, in 1865, and is of the annual value of about £84, tenable for two years. It is awarded, on the result of the Final Examination for the Degree of Bachelor of Science, to the Student who is most distinguished in two or more of the Physical Science subjects—viz., Mathematics, Natural Philosophy, Astronomy, Chemistry—either in the year preceding a vacancy, or in the year in which a vacancy occurs. The holder is required to satisfy the Senatus Academicus that he has been pursuing his studies in Science during the first year of his tenure, in such a manner as the Senatus may

¹ The Senatus reserve power to relax this Regulation, in cases where they are satisfied that very special cause has been shown.

fix. It cannot be held with any other Scholarship, Fellowship, or Bursary, or with any situation yielding an annual income of more than £100. Open July 1916.

1914, JOHN WILLIAM THOMSON, M.A., B.Sc.

BAXTER (MISSES) OF BALGAVIES SCHOLARSHIPS.

(One Scholarship may be open 1915.)

Under this Endowment there are two Scholarships, of the annual value of £40. The Scholarships are in the gift of the Directors of the High School of Dundee, and are open for competition to all pupils of that school who shall have finished their course at the time, or within one year previously. The examination is held in Dundee by examiners appointed by the Directors, and the subjects are Geometry, Algebra, Trigonometry, and Mechanical Drawing. The Scholarships are tenable for one year certain, and for a second if a favourable certificate is sent to the Directors by the Senatus Academicus. The patrons may extend the tenure of these Scholarships for a further period of one year, provided the holder shall have previously passed the First Examination for the Degree of Bachelor of Science in the Department of Engineering in this University. The Classes to be attended during the first two years are Mathematics, Natural Philosophy (Lectures and Laboratory), Engineering (two courses), and Chemistry, and may (by resolution of the Senatus) be attended in any order most convenient to the Scholar, provided he intimate his intentions to the Dean of the Faculty of Science beforehand. In the event of a third year's tenure, the Scholar may attend any two classes selected by himself and approved by the Senatus. These Scholarships are not to be held with any other Scholarship, Fellowship, or appointment yielding £50 per annum. Intending applicants should communicate with the Secretary of the above School. See Deeds of Foundation, at page 255 of the CALENDAR for 1869-70, at page 372 of CALENDAR for 1878-79, and at page 377 of the CALENDAR for 1881-82.

1912, ROBERT M'INTOSH.

1913, THOMAS A. BURNS.

CARNEGIE POST-GRADUATE SCHOLARSHIPS (£100), FELLOWSHIPS (£150), AND GRANTS IN AID FOR RESEARCH.

Graduates of this University are entitled to become Candidates. Application Forms may be had from the Secretary to the Carnegie Trust, The Merchants' Hall, Hanover Street, Edinburgh, to whom all communications on the subject must be addressed. Nominations for Scholarships, and applications for Fellowships and Grants in Aid, must be lodged with the Secretary not later than 1st April annually.

DAWSON (WILLIAM) BURSARIES.

(One Bursary open June 1915.)

Founded 1914 by the Trustees of the late William Dawson, Esquire, of Gairdoch and Powfoulis. Five Bursaries: each £30 a year, for 3 years. Patrons, the Dawson Trustees, per Messrs Jo. C. Brodie & Sons, W.S., 5 Thistle Street, Edinburgh.

The Bursaries are open to students entering or in the first year of study in the Faculty of Science, and proceeding to the degree of Bachelor of Science in Engineering or Agriculture at the University of Edinburgh, and are tenable for three years or such shorter time as the Bursars continue students of the Science Faculty of said University, provided that the tenure of such Bursaries shall be dependent upon the Trustees being satisfied that the Bursars are duly and faithfully performing the work involved in their course of study. One of the said Bursaries shall be given to a student in each of the following branches of the said Faculty :—(1) Civil Engineering, (2) Mechanical Engineering, (3) Electrical Engineering, (4) Mining Engineering, and (5) Agriculture. Candidates must undergo an examination in four out of the following subjects :—(1) English, (2) Mathematics. (3) French, (4) German, (5) Natural Philosophy, (6) Chemistry, (7) Applied Mathematics (for Engineering candidates), or Biology (for Agriculture candidates). So far as possible, the papers shall be those of the Arts First Year Bursary Competition. In other subjects there are special papers. Each candidate for the Bursaries shall submit to the Senatus (1) details of the record of his school work, where he has just left school and has had no practical training, or (2) details of his workshop or other technical training and of any technical classes which he has attended, where he has since leaving school gone through a course of practical training or attended technical classes. See Deed of Foundation, p. 797 in CALENDAR for 1914-15. The Bursary in Mining Engineering will be open in June 1915; and the others may be open in June 1917. Names of candidates in 1915 to be intimated not later than 17th June.

1914, ALEXANDER P. LAING, PETER MURRAY, JOHN SCOTT
STEVENSON (Engineering).
GEORGE M. STRANG (Agriculture).

DICKSON (WILLIAM) TRAVELLING FUND.

See **Faculty of Arts.**

ELLIS PRIZE FOR PHYSIOLOGY.

See under **Faculty of Medicine.**

EXHIBITION OF 1851 (ROYAL COMMISSION FOR).

Science Research Scholarship. (Open March 1915.)

The Commissioners for the Exhibition of 1851 give this University the power of nominating a student to a Scholarship of £150 a year, tenable for two years, and which may be extended to three years, under the following conditions, viz. (a) That he is a British subject; (b) That he has been a *bonâ fide* student of Science in this University for three years; (c) That he has been for a full year previous to his appointment, and at the date of his appointment is, a student of the University, or has been a student of the University for a full year ending within twelve months prior to the date of his appointment, and since ceasing to be such student has been engaged solely in scientific study. The Scholarship is limited to those

branches of Science (such as Physics, Mechanics, and Chemistry) the extension of which is specially important for the national industries, and may be tenable in any University or other Institutions to be approved by the Commissioners. Applications must be made to the Dean of the Faculty of Science not later than 1st March. See Regulations, p. 544 of CALENDAR for 1891-92.

1912, JAMES KENDALL, M.A., B.Sc.

1913, HYMAN LEVY, M.A., B.Sc.

1914, JOHN DAVID M'BEATH ROSS, M.A., B.Sc.

Industrial Bursary. (Open April 1915.)

The following are the Regulations of the Commissioners :—

1. The Scheme of Industrial Bursaries is designed for the assistance of young men who, after a course of training in a University or approved Technical College, desire to take up Engineering, Chemical, or other industrial work. 2. These Bursaries are intended, not to facilitate the continuance of collegiate studies by means of post-graduate work, but to enable suitable applicants to tide over the period between their leaving College and obtaining remunerative employment in industry. 3. The value of the Bursary will depend on the circumstances of the holder, but will, as a rule, not exceed £100 a year. 4. A Bursar will be elected in the first instance for one year, but the tenure of his Bursary will ordinarily be prolonged a second year provided that the Commissioners are satisfied with the work done by the Bursar during his first year. 5. In special circumstances a Bursary may be renewed for a third year. 6. The appointments to the Bursaries will be made by the Commissioners from among Candidates recommended by the Authorities of certain selected Universities and Technical Schools. *N.B.*—In the consideration of these recommendations great weight will be given to evidence that a Candidate has the practical ability likely to lead to his advancement in industrial work : academic success alone is not a sufficient recommendation. 7. The Candidate must be a British subject, under the age of 25. 8. The Candidate must have been a *bonâ fide* student of Science for a term of three years. 9. The Candidate must further satisfy the Commissioners—(a) That he has obtained, or can, within one month of election, obtain an industrial post to be approved by them ; (b) That he is in need of pecuniary assistance to enable him to hold such a post. (10) A Bursar may, if the Commissioners approve, spend part of the tenure of his Bursary in studying a special industrial process or processes in works either at home or abroad. 11. No Bursar shall enter a firm as a premium pupil without the special consent of the Commissioners. 12. A Bursar must submit to the Commissioners, on the expiration of each year of his Bursary, a satisfactory report of his work, from his employers. Names of Candidates must be intimated to the Dean of the Faculty of Science not later than 30th April.

1913, HERBERT S. CLEGHORN, B.Sc.

1914, ROBERT B. ROBERTSON.

FALCONER MEMORIAL FELLOWSHIP.

(May be open July 1915.)

This Fellowship was founded in 1869 by the Subscribers to the Fund for a Memorial to Hugh Falconer, M.D. (for many years Superintendent of the H. E. I. Company's Botanic Gardens at Suharunpoor and Calcutta), and the Association for the better Endowment of the University, for the encouragement of the Study of Palæontology and Geology. It is of the annual value of about £124, and is tenable for two years, but if the Senatus sees fit, it may be held for three years, and with consent of the University Court, for four years. It is awarded after competitive examination in Natural History as applied to Palæontology and Geology, and is open to Graduates in Science or Medicine of this University of not more than three years' standing at the time of the competition. It cannot be held along with any other Fellowship, Scholarship, or Bursary in any Scottish University. The Deed of Foundation will be found at p. 270 of the CALENDAR for 1870-71. The next appointment may be made in July 1915.

1912, JOHN BRUCE CAIRNIE, M.A., B.Sc.

GRAY SCHOLARSHIP. (Open July 1915.)

Will be awarded for distinction in the Natural Science subjects of the Final Science Examination in 1915. (See under **Faculty of Arts.**)

GROCCERS' COMPANY OF LONDON RESEARCH SCHOLARSHIPS.

With the object of encouraging original research in Sanitary Science, the company offer Scholarships of £300 a year, with an allowance to meet cost of apparatus and other expenses in connection with the research work, tenable for one year, but renewable for a second or third year, subject to the conditions of the scheme under which they are established. Apply to the Clerk to the Grocers' Company, Grocers' Hall, London, E.C., from whom forms of application and all necessary information may be obtained.

HOPE PRIZE SCHOLARSHIPS. (Open June 1915.)

Three Hope Prize Scholarships have been instituted (with funds formerly of the Hope Chemistry Prize founded by the late Professor Thomas C. Hope) in connection with the Chemical Laboratory of the University, each of the value of about £30 per annum, tenable for one year, and awarded annually. Each Scholarship is awarded to the student whom the Professor of Chemistry thinks most deserving of those who have worked during the year in the Chemical Laboratory of the University. The scholars must work during the year succeeding their appointment in the Chemical Laboratory of the University, and must

assist the Professor of Chemistry in such manner as he thinks fit in each case, and the scholars are not required to pay fees for the Laboratory. In case of resignation of a Scholar, or of a Scholar failing to fulfil the conditions, the Professor of Chemistry may, if he thinks proper, recommend a student working in the Chemical Laboratory for the remainder of the Scholarship so become vacant: the new scholar so appointed to perform the duties and receive the payments during the remainder of the time for which his predecessor was appointed. Scholars may, in case of great distinction, be appointed for a second year.

1914, WILLIAM L. BAILLIE.
 NORMAN C. LUCAS, M.A., B.Sc.
 ANDREW F. MACCULLOCH, M.A., B.Sc.

INDUSTRIAL BURSARY. See **Exhibition of 1851**, above.

MACKAY SMITH SCHOLARSHIPS.

These Scholarships, one in Natural Philosophy and one in Chemistry, each of the annual value of £27, tenable for two years, are held under such regulations and conditions as the Senatus may from time to time direct. The Scholarship in Natural Philosophy is open for competition to students who have attended the Class of Natural Philosophy, and the Scholarship in Chemistry to students who have attended the Class of Chemistry, both in this University. The successful candidate for the Scholarship in Natural Philosophy is bound to attend the Class of Natural Philosophy, or to prosecute the study thereof, in the University during at least one year of his tenure of the Scholarship, in such way as the Senatus may direct or approve. Candidates for the Natural Philosophy Scholarship will be expected, besides attending the examination, to submit properly authenticated records of Laboratory work performed by them: and such records will be taken into consideration by the Examiners.

The Scholarship in Chemistry is held under similar conditions as regards attendance on the Class of Chemistry, and the prosecution of the study thereof. The next competition in Natural Philosophy and in Chemistry will take place in June 1916.

1914, (*Nat. Phil.*) J. H. I. BELL; (*Chemistry*) ANDREW F. MACCULLOCH, M.A., B.Sc.

MORAY (EARL OF) ENDOWMENT FOR THE PROMOTION OF ORIGINAL RESEARCH.

(For particulars see under **Faculty of Arts**.)

REID AND THOMSON BURSARY IN CIVIL AND PRACTICAL ENGINEERING.

This Bursary is of the annual value of £51, is tenable for two years in this University, and may be awarded in July 1914 on the results of the

First B.Sc. Examination in Mathematics and Natural Philosophy. Should the Bursar pass the Final Examination for B.Sc. in Engineering during the second year of his tenure of the Bursary, it may be continued for a third year, during which he shall be required to undertake some original research work and to assist in laboratory teaching of the Engineering department. Candidates must have passed the Preliminary Examination or its equivalent, and attended during their first Winter Session, courses in Mathematics and Natural Philosophy qualifying for the First B.Sc. Examination in Engineering, and must, unless excused by the Senatus, complete the First Science Examination in Engineering during their first year's tenure of the Bursary. The Bursary cannot be held, unless with the express permission of the Senatus, along with any other University Scholarship, Fellowship, or Bursary. Candidates must, on entering for the examination, produce evidence that they have fulfilled the conditions of eligibility, and during the whole tenure of the Bursary, the holder must prosecute his studies in Engineering in the University to the satisfaction of the Senatus, and with the view of obtaining the Degree of B.Sc. in Engineering. The subjects of examination are (*a*) Mathematics (as required for the First B.Sc. Examination in Engineering); (*b*) Natural Philosophy (as required for the First B.Sc. Examination in Engineering), in which the records of a Candidate's Laboratory work will be taken into account. May be open June 1916.

1914 J. T. FLETT.

STEVEN SCHOLARSHIP IN AGRICULTURE.

(Open March 1915.)

This Scholarship was founded in 1882 by the Misses Steven of Bellahouston in memory of their brother Moses Steven, Esq. It is of the value of about £80, and is awarded annually, in connection with the Class of Agriculture, the subjects of examination being Agriculture and General and Agricultural Chemistry.

The Scholar is required to visit the annual exhibitions of the four leading agricultural societies, or such as the Professor of Agriculture shall appoint, and to report on his visit or visits to the satisfaction of the Professor of Agriculture. The Exhibitions which the Scholar is required to visit are : —

The Royal Agricultural Society of England.

The Bath and West of England Agricultural Society.

The Highland and Agricultural Society of Scotland.

Royal Agricultural Society of Ireland.

See Deed of Foundation at page 397 of CALENDAR for 1882-83.

1914, PRIMROSE M'CONNELL, B.Sc.

Prox. acc. JAMES H. ELDER.

SWINEY LECTURESHIP ON GEOLOGY.

This Lectureship is in the patronage of the Trustees of the British Museum, and is of the annual value of £144. The Trustees may appoint

any graduate in any Faculty of the University who has obtained his degree after examination. The office is tenable for five years, at the expiration of which period the Lecturer is ineligible for the next election. The number of lectures is not to be less than twelve in each year, nor more than three in the same week. The course is required to be annually delivered between the first of November and the end of July following, at such public places in the United Kingdom as the Trustees shall approve. The public are admitted without fee. The Lecturer is required at the termination of each course to deposit a copy, or full extract of such course of lectures, with the Principal Librarian of the British Museum, to whom application may be made for further particulars.

TREVELYAN (ARTHUR) SCHOLARSHIPS IN ENGINEERING.

(Open June 1915.)

There are two Scholarships, each of about £19 per annum, for proficiency in Engineering and the Mechanical and Useful Arts, tenable in this University for two years. Candidates must not be more than nineteen years of age, must have passed the Preliminary Examination or its equivalent, and must not have attended more than one Winter and one Summer Course in Engineering and field work respectively, either in this University or elsewhere. The subjects of examination are (a) Mathematics, as far as the subjects required for the first B.Sc. Examination in Engineering; (b) Natural Philosophy to the same extent; (c) Engineering (the subjects of the previous Winter Session and field work); (d) Geometrical Drawing and Elementary Graphics. See Excerpt from Deed, page 538 of CALENDAR for 1892-93. One Scholarship is awarded annually in June.

1913, JOSEPH GRANT.

1914, A. J. R. WISHART.

VANS DUNLOP SCHOLARSHIPS.

These Scholarships are each of the annual value of £100, and are tenable for three years. The following are the General Regulations:—

Each Scholarship is tenable on condition that the scholar submits annually to the University evidence that he is prosecuting his studies or his professional work in a manner satisfactory to the Senatus. The evidence may consist of—(1) A certificate of attendance on lectures or laboratories approved by the Senatus; or (2) a certificate of having acted as an assistant to a Professor in this or some other University; or (3) a written report of his work done during the year, together with a Thesis composed by himself in connection with some part of that work.

Not more than one of these Scholarships can be held by the same person. Scholars cannot hold, along with their Scholarships, any other Fellowship, Scholarship, or Bursary in the University of Edinburgh.

Candidates must, on entering for the Examinations, produce evidence that they have fulfilled the conditions of eligibility.

Candidates, if not already matriculated, are required to pay the Matriculation Fee for the year in which the competition takes place.

The names of Candidates highly distinguished in the examinations may be published.

Agriculture and Rural Economy.

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than six years have elapsed since the time of their first entering a class qualifying for the B.Sc. Degree; provided also that they have attended the Class of Agriculture and Rural Economy within one year of the date of competition. The subjects of examination are Agriculture, Chemistry, Botany, and Veterinary Science. The next competition will take place in March 1916. Names to be entered on or before 1st March.

1913, DONALD MACPHERSON, B.Sc.

Chemistry. (Open June 1915.)

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than six years have elapsed since the time of their first entering a class qualifying for the B.Sc. Degree. The subjects of Examination are:—(a) Inorganic and Organic Chemistry, and the connection between the Chemical and Physical character of Substances. (b) Qualitative and Simple Quantitative Analysis of Inorganic Substances, and the Preparation of Pure Chemical Substances. The examination in subjects (a) is similar, and will be held at the same time as the Second B.Sc. Examination. The examination in subjects (b) is conducted practically in the Laboratory. The next competition will take place in June 1915.

1912, JOHN DAVID M'BEATH ROSS, B.Sc.

Engineering and Mechanical and Useful Arts.

The competition is open to all Matriculated Students who have been in regular attendance on the Class of Engineering for at least two years, in each of which they must have attended at least one full course or two half-courses; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than four years have elapsed since the time of their first entering a class qualifying for the B.Sc. Degree. The examination is similar to that for the Second B.Sc. in Engineering, with the addition of questions on prescribed books treating of Engineering and Mechanical and

useful Arts. The Examiners are the Professor of Engineering and the Lecturer on Applied Mathematics. The next competition will take place in June 1916.

1913, GEORGE BREMNER, B.Sc.

Mathematics.

The next competition will take place in June 1916. (See under **Faculty of Arts.**)

Natural History, including Geology and Botany.

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than six years have elapsed since the time of their first entering a class qualifying for the B.Sc. Degree. The subjects of Natural History, Geology, and Botany are coequal in the examination, and the examination in each of the three subjects is similar to that for the Final Examination in Pure Science, and consists of two parts—a Written Examination, extending over not less than three hours, and a Practical Examination with specimens. The next examination will be held in June 1917, at the same time as the Final Science Examination.

1914, ALASTAIR COSMO BURTON GEDDES, B.Sc.

Natural Philosophy.

The next competition will take place in June 1916. (See under **Faculty of Arts.**)

WARDLAW BEQUEST for behoof of indigent and deserving Students. (See under Faculty of Arts.)

The following ARTS BURSARIES are tenable in the Faculty of Science :—

Allan.	Grant.	Morayshire Club.
Baxter of Balgavies.	Heriot.	Peeblesshire.
Border Counties.	Jamieson.	Renton.
Christie.	Maclaurin.	Stuart.
Glenbuck.	Mann.	Strang Steel
	Maule.	

PAYMENT OF SCHOLARSHIPS, BURSARIES, ETC.

The attention of all Bursars in the Faculty of Science is particularly called to the following regulation :—

Bursars, etc., in the Faculty of Science (to whose Bursaries special conditions are not attached) must annually attend at least two of the classes necessary for the degree of Bachelor of Science, and must present themselves at the examinations necessary for that degree.

Each Fellow, Scholar, Bursar, or Prizeman, when he applies to the Factor for a payment, must produce a Certificate, signed by the Dean, or the Professor to whose department the Foundation is attached, attesting his regular attendance on the proper classes, etc., or otherwise that he has fulfilled the conditions attached to the Foundation.

Certificates, in terms of this regulation, will be given to Bursars, by the *Dean of the Faculty of Science*, on 13th November ; and at the end of the Session. In applying to the Dean for the Certificate in November, Bursars must present their Class Cards for the Session ; and at the end of the Session they must present Certificates from the Professors that they have attended with regularity and made progress in their studies. Payments are made by the University Factor, Sir Henry Cook, W.S., 61 Castle Street, Edinburgh, on and after 14th November for the Martinmas payments, and on and after 18th May for the Whitsunday payments, between 10 and 3 o'clock.

N.B.—Bursars, Scholars, and Fellows who desire to resign should at once announce this to the Factor. They must apply to the Factor for the instalments due to them within three months after they have become payable, otherwise they will be regarded as having resigned.

FACULTY OF DIVINITY.

DEAN—PROFESSOR W. P. PATERSON, D.D.

PROGRAMME OF CLASSES, 1914-1915.

Note.—Further information regarding the Courses is given on the pages stated in the last column of the Table.

The Classes will meet daily as follows (Saturdays excepted), unless otherwise stated. They will meet for the last time before the Christmas vacation on Friday, 18th December 1914; will reassemble on Tuesday, 5th January 1915, and will be closed on Friday, 12th March 1915. The Classes are open to Women Students.

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturer.	Class Fees. See also p. 447.	See also page
Divinity ¹ —Junior Class	14 Oct., 9 a.m.	Prof. Paterson and Dr Fisher	£3 3	451
Senior Class	14 Oct., 10 a.m.		3 3	451
Hebrew ² —Elementary Class (see below)				
Junior Class	14 Oct., 10 a.m.	Prof. Kennedy and Assistant	3 3	452
Senior Class	14 Oct., 9 a.m.		3 3	452
Aramaic (<i>Tuesday and Thursday</i>) ⁴	15 Oct. ⁵		2 2	452
Ecclesiastical History	14 Oct., 11 a.m.	Prof. Mackinnon	3 3	453
Ecclesiastical History, Advanced	19 Oct., 9 a.m.		2 2 ³	453
Biblical Criticism	14 Oct., 12 noon	Prof. Patrick	3 3	453
Elementary Course in Greek ⁴	15 Oct., 9 a.m.	Prof. Mair	3 3	150
Ecclesiastical Art ⁴	12 Jan., 3 p.m.	Prof. Baldwin Brown	2 2	230

An ELEMENTARY CLASS for those beginning the study of HEBREW is conducted by the Class Assistant.

The Class meets on Tuesdays and Thursdays in the three terms of the Arts Session, at 2 p.m. (During the Summer term the Class will meet, if possible, at an earlier hour.) For the opening dates in each term, see under Faculty of Arts, UNIVERSITY CALENDAR. The fee is £1, 11s. 6d.

This Class is specially intended to prepare for the Entrance Examinations of the Scottish Churches. Textbook: A. B. Davidson's *Introductory Hebrew Grammar*.

For Classes in HONOURS HEBREW and in ARABIC, see under FACULTY OF ARTS.

¹ The Junior Divinity Class will meet on subsequent Wednesdays at 12 o'clock.

² The two ordinary classes will meet together on subsequent Wednesdays at 9 o'clock.

³ See Carnegie Trust (Appendix). ⁴ See under FACULTY OF ARTS. ⁵ The hour will be fixed to suit intending Students.

MATRICULATION, ENTRY FOR CLASSES, etc.

Matriculation consists in paying annually an entrance fee to the University, and in inscribing the name in the Students' Album.

The Matriculation Fees are :—

For the Academic Year, 1st October to 1st October . £1 1 0

For the Summer Session only, 1st May to 1st October . 0 10 6

Candidates for Examination or for Graduation must pay the Matriculation fee of £1, 1s., unless previously matriculated for the whole year.

Students are required to take out their Matriculation Tickets and Class Tickets not later than fifteen days after the beginning of the Course.

For Second and Third Attendances in Divinity, no reduction. Subsequent attendances free. For Second Attendances on Hebrew, Ecclesiastical History, and Biblical Criticism, no reduction. Subsequent attendances free. Fee in case of Licentiates of Foreign and Colonial Churches, £2, 2s.

LECTURESHIPS.

GIFFORD LECTURESHIP—*Lecturer* for 1913-15, M. HENRI BERGSON of the Collège de France. (See page 454.)

GUNNING LECTURESHIP — *Lecturer* for 1913-16, Rev. BRUCE M'EWEN, B.D., D.Phil. (See page 454.)

APOLOGETICS — *Lecturer*, Rev. R. H. FISHER, B.D., D.D. (See page 451.)

CURRICULUM FOR THE MINISTRY IN THE CHURCH OF SCOTLAND.

The Laws of the Church of Scotland require that every Theological Student, who desires to qualify himself for the Ministry, should attend the Class of *Divinity*, either during *three full and regular Sessions*, or during *two regular and three partial Sessions*;—and also that he should regularly attend during two Sessions each of the Classes of *Hebrew*, *Ecclesiastical History*, and *Biblical Criticism*.

Entrance Examinations.

All Students, before they can be enrolled for the first year of their curriculum with a view to the Ministry of the Church of Scotland, must produce to the Professor of Divinity a certificate of their having passed an examination by the Presbytery within whose bounds they usually reside, and also a certificate of having passed the Examination of the Examining Board instituted by Act IX. of Assembly, 1903. Notice of intention to take the Presbyterian Examination must be sent to the Presbytery Clerk before 1st September.¹ The Preliminary Examinations conducted by the Examining Board will be held simultaneously at the four Universities, shortly before the commencement of every Session.² The Convener of the Board is the Rev. John Smith, D.D., The Manse, Partick, Glasgow, and the Vice-Convener for the University of Edinburgh is the Rev. James Coullie, B.D., The Manse, Pencaitland. For all necessary information, and for copies of the Schedules that must be filled up previous to the Examination, apply to either of these. See also for subjects of Examination, *The Church of Scotland Year-Book*, p. 27.

All Students—graduates as well as non-graduates—will be examined by the Board in New Testament Greek and Scripture Knowledge, and those whose certificates in their progress to a degree do not cover Greek, Latin, Moral Philosophy, and Hebrew, will, in addition, be examined in any or all of those subjects not included.

Before beginning the second and third years of study, Students of the Church of Scotland must produce to the Professor of Divinity evidence (a) of having passed the relative examination by the Presbytery, (b) certificates showing that they are in communion with, and have taken part in, the work of the Church.

Exit Examination.

An examination by the Examining Board must be passed by every Student at the termination of his Divinity Course, as a qualification for licence. This Examination will be held after the middle of April 1914, at the University, on two days to be announced in the *Year-Book* for 1914. For the subjects of Examination, apply

¹ For subjects, see *Year-Book*, p. 29.

² The date of next Examination is 1st and 2nd October 1914, at 10 A.M.

to the Convener or Vice-Convener, or consult *The Church of Scotland Year-Book* (p. 29). Students who have passed for the Degree of B.D. will be examined only in Greek New Testament *ad apt.*, Scripture Knowledge, and the Westminster Confession.

Discourses.

Every Student of Divinity is required during his curriculum to deliver with approbation *six* discourses upon subjects prescribed by the Professors of Divinity, viz., a Homily, an English Essay on some subject in Biblical Theology, a Lecture, a popular Sermon, a Hebrew Exercise on a passage of the Old Testament, and an Exercise with additions on a passage of the Greek New Testament.

The following Regulations have been made by the Faculty of Theology in regard to the delivery of these Discourses. (1) Students of the *first* year shall give in their *Homily* to the Professor of Divinity not later than the first Friday in February; (2) Students of the *second* year shall be prepared to deliver their *Lecture* not later than the second Friday in January; (3) Students of the *third* year shall give in their *Hebrew Exercise* and their *Greek Exercise*, with additions, to the Professors of Hebrew and Biblical Criticism, respectively, not later than the 15th February, and shall be prepared to deliver their *Popular Sermon* not later than the second Friday in January. The *English Essay* is accepted as the class-essay for one of the three years, and is required not later than the third Friday in January.

Subjects of Examination for Students of Divinity, and Candidates for Licence, by Presbytery of Edinburgh.

The examination is mainly in writing. An average of not less than 50 per cent. over all the subjects, is necessary. Examinations held at 22 Queen Street.

Subjects of Examination for Students of Divinity under the Presbytery of Edinburgh, October 1914.

1. *For Students entering on their First Year.*—(1) Bible Knowledge—Genesis to 2 Samuel, and the Four Gospels; (2) The Shorter Catechism.

2. *For Students entering on their Second Year.*—(1) Hebrew—Davidson's *Grammar*, 1-31, and Genesis i.-ix.; (2) Greek—The

Epistle to the Colossians as in Lightfoot ; (3) Divinity—Confession of Faith, 1-15 (Macpherson's *Handbook* recommended), and Flint's *Theism* ; (4) Bible Knowledge—1 Kings to 2 Chronicles and Acts of the Apostles, writing from memory of sayings of our Lord selected from the four Gospels. (The selection must contain 500 words at least, and should be submitted one month beforehand to the Clerk of Presbytery.)

3. *For Students entering on their Third Year.*—(1) Hebrew—Davidson's *Grammar*, 1-49, and Psalms lxxiii.-lxxxix. inclusive ; (2) Greek—St John's Gospel to be read critically, with discussions as to date and authorship ; (3) Divinity—Confession of Faith, 16-33 (Macpherson's *Handbook* recommended), and Illingworth's *Reason and Revelation* ; (4) Bible Knowledge—Ezra to Psalms and Isaiah, writing from memory of passages selected from Psalms and Isaiah. (The selection must contain 500 words at least, and should be submitted one month beforehand to the Clerk of Presbytery.)

4. *For Candidates for Licence.*—Scriptures of the Old and New Testaments, and History and Doctrine of the recognised Standards of the Church of Scotland ; Writing Popular Discourse on Text prescribed by the Presbytery.

WILLIAM MAIN, *Presbytery Clerk.*

Attendance at Foreign Universities.

The General Assembly of 1868, with the consent of a majority of Presbyteries, enacted and ordained :—(1) That all Candidates for the ministry shall attend during at least *two Sessions* the Theological Classes at one or more of the Universities of Scotland, and shall deliver, with approbation, the Six Trial Discourses required by the Acts of the General Assembly ; and (2) That any Student who wishes to prosecute the remainder of his Theological Curriculum at any Protestant University or Universities not within the bounds of this Church, shall, before repairing thither, undergo satisfactory examination by the Presbytery with which he is connected, and shall, moreover, satisfy the same Presbytery in regard both to the Classes which he proposes to attend, and to the proficiency he has acquired in the language used in the Foreign University in which he intends to study.

COURSES IN THE FACULTY OF DIVINITY.

I. Divinity.

PROFESSOR W. P. PATERSON and REV. R. H. FISHER, D.D.

Junior Class—9 to 10 (Wednesdays, 10 to 11).

The course for students of the first year embraces :—

(1) General Introduction to Theology.

Scope and Relations of Theology—Preliminary Survey of the Theological Disciplines.

(2) History of Religion.

Origin and Development of Religion—Sketch of the Principal Ethnic Religions—Outline of Biblical Theology.

(3) Philosophy of Religion.

God, the Soul, and Immortality—The History of Theistic Thought—Anti-Theistic Theories—The Nature and Truth of Christianity.

Senior Class—10 to 11.

In the Senior Class the course extends over two years, and includes as its staple the Prolegomena to Dogmatics and the System of Christian Doctrine. Two half-courses are given on Christian Ethics. Homiletics is studied theoretically and practically. The syllabus contemplated for Session 1914-15 is as follows :—

Mondays, Tuesdays, and Thursdays. — The Doctrines of Anthropology, Christology, Soteriology, Ecclesiology, and Eschatology.

Fridays.—Homiletics.

On Wednesdays the two Classes meet together, when Dr Fisher lectures on Apologetics and Ethics.

The work of both Classes includes two written examinations and an essay.

II. Hebrew and Semitic Languages.

PROFESSOR KENNEDY and ASSISTANT.

A. HEBREW.

Junior Class—10 to 11 (Wednesdays, 9 to 10).

It is assumed that students attending this Class have already mastered the first thirty sections of the textbook (Davidson's *Introductory Hebrew Grammar*). The work of the Class consists mainly in the further study of the Grammar, with home exercises, varied by the reading of easy prose passages from the Old Testament (Genesis and Ruth), and a few selected Psalms.

The student's progress is tested by a written examination at the close of each term.

Senior Class—9 to 10.

Study of Davidson's *Hebrew Syntax*. Hebrew Prose Composition. Reading of unpointed texts.

Reading and Exposition of portions of the Historical, Poetical, and Prophetical Books of the Old Testament. For Session 1914-15: 1 Kings i.-iii., xvii.-xix., 2 Kings xvi.-xix., xxii., xxiii.: Psalms xc.-cvi., cxx.-cxxxiv.; Isaiah, xl.-liii. (R. Kittel's *Biblia Hebraica* or parts thereof indispensable.)

A Course of Lectures, extending over two Sessions, on Old Testament Introduction (including History of the Canon, Text and Versions) is given on Wednesdays to both Classes at 9 A.M.

There is a written examination at the close of each term.

The Senior Hebrew Class is also the Graduating Class in Hebrew for the Ordinary Degree of Master of Arts. (See under Faculty of Arts.)

Those who propose, in a subsequent Session, to take up Hebrew as one of their Graduation Subjects, will have an opportunity of attending the Elementary and Junior Classes in that language during the Session 1914-15.

For Elementary Class for Beginners, see page 446; and for Honours Hebrew, see under Faculty of Arts.

B. ARAMAIC.

See under Faculty of Arts.

1914-15.—Biblical Aramaic, and the dialect of Targum Onkelos.

For ARABIC, see under Faculty of Arts.

III. Ecclesiastical History—11 to 12.

PROFESSOR JAMES MACKINNON.

History of the Christian Church during the First Six Centuries.

The subject will be treated partly in outline, partly in detail. Special attention will be devoted to the Origins and Diffusion of Christianity, and the Development of the Doctrine and Constitution of the Church, and also to the History of the early British Church.

Books recommended.—Rainy, *The Ancient Catholic Church*; Fisher, *A History of the Christian Church* (periods i.-iv.); Jackson, *History of the Christian Church*; Gwatkin, *Early Church History*.

ADVANCED CLASS OR SEMINAR for the purpose of *Studying Original Sources*: at an hour to be arranged.

This Class will meet about twenty-five times during the Autumn and Spring Terms.

Subject for Session 1914-15.—The Reading and Discussion of the Sources of the History of the Reformation, particularly selected works of the Reformers, and the Reformation Legislation by the English and Scottish Parliaments and Ecclesiastical Councils.

An Advanced Class will also be held twice a week during the Summer Term, if a sufficient number of students offer themselves. The subject is "The Origin and Progress of the Scottish Reformation, as illustrated from the Original Sources." Fee, One Guinea, which is paid, in the case of Graduates, by the Carnegie Trust.

IV. Biblical Criticism and Biblical Antiquities— 12 to 1.

PROFESSOR PATRICK.

The course of study next Session will include: (1) Textual Criticism of the New Testament. (2) Introduction to the Pauline Epistles, and Hebrews. (3) Reading of the Greek New Testament with Exegesis. (4) The History of the Canon of the New Testament.

There will be written and oral examinations, in which all regular students are required to take part.

LECTURESHIPS.

I. Gifford Lectures on Natural Theology.

Lecturer—M. HENRI BERGSON.

These Lectures were endowed by the late Adam Gifford, Senator of the College of Justice, "for promoting, advancing, teaching, and diffusing the study of Natural Theology, in the widest sense of that term."

According to the Trust Deed, "the lecturers appointed shall be subjected to no test of any kind, and shall not be required to take any oath, or to emit or subscribe any declaration of belief, or to make any promise of any kind; they may be of any denomination whatever, or of no denomination at all; they may be of any religion or way of thinking, or, as is sometimes said, they may be of no religion; or they may be so-called sceptics or agnostics or free-thinkers;—provided only that the 'patrons' will use diligence to secure that they be able, reverent men, true thinkers, sincere lovers of and earnest inquirers after truth. I wish the lecturers to treat their subjects as a strictly natural science, the greatest of all possible sciences, indeed, in one sense, the only science,—that of Infinite Being, without reference to or reliance upon any supposed special exceptional or so-called miraculous revelation. The lecturers shall be under no restraint whatever in their treatment of their theme. The lectures shall be public and popular, that is, open not only to students of the Universities, but to the whole community, without matriculation."

The present holder of the Lectureship delivers his lectures during Sessions 1913-14 and 1914-15.

II. The Gunning Victoria Jubilee Lectureship.

Lecturer—Rev. BRUCE M'EWEN, B.D., D.Phil.

With a view to promote the study of Natural Science among candidates for the ministry, and to bring out among ministers the fruits of study in Science, Philosophy, Language, Antiquity, and Sociology, Dr R. H. Gunning, of Edinburgh and Rio de Janeiro, founded a Lectureship in the Faculty of Divinity of the University of Edinburgh, to be known as "The Gunning Victoria Jubilee Lectureship."

The Gunning Lectureship is a triennial appointment of the value of £100, and the appointment is made by the Faculty of Divinity. The lecturer may be any Scottish Presbyterian clergyman at home, or in the Mission field, eminent in Science, Philosophy, Language, Antiquity, or Sociology, and the lectures may be delivered in the University of Edinburgh, or such other place as the Faculty may appoint.

See Revised Scheme, p. 519 of CALENDAR 1889-90.

The next course of lectures will be delivered in November 1914.

REGULATIONS FOR GRADUATION IN DIVINITY.

(Candidates who began the study of Divinity with a view to Graduation before 1st October 1896 are referred to the CALENDAR for 1896-97, and to previous CALENDARS.)

I. No one is admitted to examination as a Candidate for the Degree of Bachelor of Divinity (B.D.) unless he be (1) a Graduate in Arts of the University, and has taken a complete Theological Course in a Scottish University or Universities, or in an institution or institutions specially recognised for the purpose by the University Court, or partly in a Scottish University or Universities and partly in such institution or institutions; or (2) a Graduate in Arts of any Scottish University or other University specially recognised as aforesaid, and has completed his Theological Course, of which not less than two years' attendance has been given in this University.

II. The Examiners are the Professors of the subjects included in the examinations, and two additional Examiners appointed by the University Court. The mode of conducting the examination is fixed from time to time by the Senatus Academicus.

By a Supplementary Ordinance it is provided that, notwithstanding the provisions of Section I. hereof, the Senatus Academicus may, under this Section, admit candidates to examination in not more than three of the subjects, after the completion of the second session of attendance on their Theological Course.

III. The subjects of examination are arranged in two departments: the First Department embracing—(1) Hebrew, and (2) Apologetic Theology, or the Evidences of Natural and Revealed Religion; and the Second Department embracing—(1) Ecclesiastical History, (2) Systematic Theology, and (3) Biblical Criticism and Biblical Antiquities.

IV. Every Student who at the time when these Regulations came into operation had completed a part of his Theological Course with a view to Graduation as B.D., under Regulations hitherto in force, and shall thereafter complete his course of study in conformity with such Regulations, may become a Candidate for the Degree of B.D., without complying with the provisions of these Regulations.

V. The Degree of B.D. is in no case conferred on persons who have not complied with the conditions hereinbefore set forth, and is not conferred *honoris causâ tantum*.

Subjects of Examination for 1914-1915.

I. Hebrew—

DEPARTMENT I.

A. For October 1914.

- (1) Questions in Grammar (including syntax).
- (2) Translation into Hebrew Prose.
- (3) Pointing of one or more passages from the historical book, or books, prescribed.
- (4) O.T. Introduction—The Pentateuch, Jeremiah, Amos, Hosea, Malachi, with the history of the Old Testament Canon.
- (5) Exodus i.-xiv., xx.-xxiii.
- (6) Jeremiah i.-iv., xxx.-xxxiii., Malachi.
- (7) Psalms lxxiii.-lxxxix.

B. For March and October 1915.

- (1 and 2) As above.
- (3) Pointing of one or more passages from the historical book, or books, prescribed.
- (4) O.T. Introduction—Introduction to Judges, Samuel, Kings, and Isaiah; the History of the O.T. Text, and of the Greek and Latin Versions.
- (5) 1 Kings i.-iii., xvii.-xix.; 2 Kings xvi.-xix., xxii.-xxiii.
- (6) Isaiah xl.-liii.
- (7) Psalms xc.-cvi., cxx.-cxxxiv.

II. Apologetic Theology—

For October 1914 and March 1915.

A. History and Philosophy of Religion.

1. The Religions of India.

In addition to a general knowledge of the subject, the student must show first-hand knowledge of *The Hymns of the Rig-Veda* and *The Laws of Manu* (Sacred Books of the East), *Mahabharata* (tr. in Temple Classics).

2. History of Theism. The Theistic argument from Descartes to Kant, and the Kantian Criticism.

Texts to be studied:—Kant's *Critique of Pure Reason*, *Transcendental Dialectic*, bk. ii., ch. 3 (Meiklejohn's tr.), with the relative discussions in Flint's *Agnosticism* or E. Caird's *Critical Philosophy of Kant*.

B. Christian Apologetics.

Types of the Christian Apology:—Epistle to Diognetus, Apology of Aristides; Augustine, *De Civitate Dei*, I., xi., xii. (to be studied in the original); Butler's *Analogy*; Illingworth, *Reason and Revelation*.

DEPARTMENT II.

For October 1914 and March 1915.

I. Ecclesiastical History—

- (1) The History of the Church during the First Six Centuries in Outline. The Origin and Diffusion of Christianity and the Development of the Doctrine and Constitution of the Church in Detail.
- (2) History of the Reformation in Germany, Switzerland, England, and Scotland in the 16th century.

For the examination a knowledge of the following contemporary works is required:—Under (1), Eusebius, *Eccles. History*, books iii. and iv. (Greek Text, preferably the small edition by Schwartz). Under (2), Luther's *Reformation Treatises: An den Christlichen Adel Deutscher Nation; De Captivitate Babylonica Ecclesiae; Von der Freiheit eines Christen Menschen*, English trans. by Wace and Buchheim; Gee and Hardy, *Documents Illustrative of English Church History*, Nos. 46 to 80. Knox's *History of the Reformation in Scotland* (edited by Laing), particularly from 1559 to 1567.

II. Dogmatics—

For October 1914 and March 1915.

- (1) The Doctrine of the Trinity.
- (2) The Doctrine of the Atonement.
- (3) Greek and Latin Texts:—The Catholic Creeds as in Schaff or Hahn (with Curtis' *History of Creeds and Confessions of Faith*, ch. v.); Anselm, *Cur Deus Homo*.

III. Biblical Criticism and Biblical Antiquities.

- (1) Textual Criticism of the New Testament (including knowledge of the Manuscripts, Versions, and Critical editions).
- (2) Greek New Testament. Ephesians, and I Corinthians) with Introduction and Exegesis).
- (3) History of the Canon of the New Testament to the middle of the 3rd century.
- (4) Introduction to (1) the Pauline Epistles, Hebrews, and (2) the Synoptic Gospels.

Examination Fees.

Fee for Degree of B.D. £5 5

When the Examination is taken at two periods—

The Fee for the First is 3 3
For the Second 2 2

Any Candidate who fails to pass pays a fee of 10s. 6d. for re-examination in each subject.

All Candidates for Examination or for Graduation must be Matriculated Students of the year in which they appear for Examination or for Graduation.

Time-Table of Examinations and Dates of Entry, 1914-1915.

Candidates are required to enter for each periodical Examination at which they desire to appear, and to state the subject or subjects in which they desire to be examined. When the fee has been previously paid, a pass to the examination must be obtained.

When names are not entered, and fees paid, on or before the stated dates, an additional or late-entry fee of ten shillings must be paid before the Candidates can be admitted to examination.

1914.

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| Sept. 29. | Tu. | Names to be entered and fees paid <i>on</i> this date. |
| Oct. 6. | Tu. | Hebrew, 9-11 : 11.15-1.15 ; Apologetics, 2.30-4.30. |
| " 7. | Wed. | Apologetics, 9-11 ; Dogmatics, 11.15-1.15 : 2.30-4.30. |
| " 8. | Th. | Ecclesiastical History, 10-12 : 1-3. |
| " 9. | Fri. | Biblical Criticism, 10-12 : 1-3. |

1915.

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| Mar. 9. | Tu. | Names to be entered and fees paid <i>on</i> this date. |
| " 16. | Tu. | Hebrew, 9-11 : 11.15-1.15 ; Apologetics, 2.30-4.30. |
| " 17. | Wed. | Apologetics, 9-11 ; Dogmatics, 11.15-1.15 : 2.30-4.30. |
| " 18. | Th. | Ecclesiastical History, 10-12 : 1-3. |
| " 19. | Fri. | Biblical Criticism, 10-12 : 1-3. |

* * Candidates are also required to communicate their names, together with evidence of their being qualified in terms of the above Regulations, to the Dean of the Faculty of Divinity, at least one week before the first day of the Examination.

Every Candidate for Graduation must pay the Fee of £1 for Registration as a Member of the General Council (if not already a Member) *not later than 4 o'clock on the last day but one before the Graduation.*

The fees for Matriculation, for Examinations for Degrees, and for Registration of Graduates as Members of the General Council are payable at the Matriculation Office, University. When Candidates cannot attend personally to pay the fees, they should transmit them to JAS. DOWIE, University, Edinburgh, by *Money Orders* or *Postal Orders*, or by *Bank Drafts*, crossed "*Union Bank of Scotland (Hunter Square Branch), Edinburgh.*"

SCHOLARSHIPS, BURSARIES, AND PRIZES.

I. Scholarships.

Note.—The values of Scholarships are stated approximately : the accuracy of the figures is not guaranteed.

Candidates must enter their names with the Dean of the Faculty at least one week before the date of the competition.

Memoranda.

It has been arranged by the Senatus and the Faculty of Divinity, in regard to the undernoted Fellowships and Scholarships, that

1. The *Pitt Club Scholarship* shall be competed for when it falls vacant.
2. The *Aitken Scholarship* shall be reserved from competition when it falls vacant in the same year with the Pitt.
3. The *Glover Scholarship* shall (according to its conditions) not be open to competition when the Pitt or Maxton may be open.
4. The *Maxton Scholarship* is competed for when it is vacant.

AITKEN. (Open March 1915.)

This Scholarship, founded in 1875 by bequest of the Rev. David Aitken, D.D., formerly minister of Minto, is of the annual value of about £165 (under deduction of Examiners' fees). Its purpose is to make provision for the study of Church History and Biblical Criticism at one or more University Seats in Germany, or elsewhere on the Continent of Europe, in the case of meritorious students of Edinburgh University. It is to be awarded, after competitive examination (on due proficiency being shown), to a Student in Divinity of the University of Edinburgh, who is a Graduate in Arts of that University of not more than four years' standing. It is tenable for two years; but the Senatus may extend the term for another year if it appear to them desirable. The time of the competition will be fixed and publicly intimated by the Senatus at least three months before; and the Senatus are also at liberty to prescribe whether one Semester or two Semesters in the foreign University shall be attended in each year. It is not offered for competition in the same year as the Pitt Divinity Scholarship. See Deed of Foundation at p. 344 of CALENDAR for 1876-77.

BLACK (C. B.). See under **Faculty of Arts.**

BLACKIE (JOHN AND ELIZABETH STUART).

(Open March 1915.)

This Scholarship is of the value of £85, and tenable for one year.

The candidates for the Scholarship shall be examined (1) on their general knowledge of Greek in so far as to be able to read any easy book of common prose *ad aperturam*, and to translate into good English; (2) on their knowledge of the leading points of the History of the Greek people, Ecclesiastical and Political, from the commencement of the Christian era to the latest date.

Candidates must be Graduates in Arts of the University, and if, in the examination, there should chance to be a very near equality between two candidates, the one shall be preferred who has taken his M.A. degree with Honours. No M.A. shall be allowed to compete unless he be a *bona fide* student of Theology in any of the Scottish Presbyterian Churches, and shall have gone through a course of regular Theological study for one full Session, but no more.

The holder of the Scholarship shall be bound to reside for at least five months, dating from the 1st of November or the 1st of December, in the city of Athens, and there to attend regularly Historical or Philological Lectures in the University, besides devoting himself to the private study of the living Greek tongue, under a native Greek instructor.

The successful candidate shall receive six-tenths of the amount of the Scholarship immediately on his departure for Greece, three-tenths at the end of the third month of his residence, and the other tenth on his return to Scotland, always provided: That before receiving the second instalment, he shall present to the Senatus a certificate from the Professors or some trustworthy persons in the Greek metropolis, that he has regularly observed the conditions of the Scholarship, in respect of the living practice of the Greek language, to their complete satisfaction; and provided also that, before receiving the last tenth of the money, he shall have proved his command of living Greek to the satisfaction of some native Greek in London, Liverpool, or other city where Greeks are wont to congregate; and further, that he shall have delivered in the University Hall a public discourse on some interesting branch of Hellenic History — Civil or Ecclesiastical — or Philology, from the birth of Christ to the present hour.

The examination for the Scholarship shall be held at the close of the session in the Faculty of Divinity.

1914, J. M. GOW, M.A.

BRUCE OF GRANGEHILL AND FALKLAND.

These Scholarships were founded in 1865 by Mrs Tyndall Bruce of Falkland, and are of the annual value of £100. They come into operation in the Faculty of Divinity only when a vacancy occurs in any one of the three Scholarships of this name in the Faculty of Arts, by the death, resignation, or dismissal of a Scholar during the period of his tenure of the Scholarship; and are tenable in the Faculty of Divinity during the remainder of that period. They cannot be held with any other Scholarship or Fellowship of a Scottish University, or with any situation yielding an income of £100 a year.

COBB.

This Scholarship, founded in 1889, is a bequest by the late Miss Matilda Johnston Cobb, Broughty Ferry. It is of the annual value of about £39 (under deduction of Examiners' fees), and is tenable for three years. The subjects of Examination are Hebrew, Greek, Latin, and Mathematics, and the Scholarship is open to competition amongst Students who are entering on the study of Divinity with a view to becoming Ministers of the Church of Scotland. Will be open in October 1915.

1912, A. S. SMITH.

GLOVER.

This Scholarship was founded in 1875 by Subscribers to a Fund for commemorating the memory of the Rev. W. Glover, D.D., and by the University Endowment Association. It is of the annual value of about £47 (under deduction of Examiners' fees), tenable for three years, and open to all Masters of Arts of any of the Universities of Scotland who have finished their study of Theology, before entering the Church of Scotland, within six years, and who have attended the last Session of their course at least in the University of Edinburgh. It cannot be held with any other Divinity Scholarship or Bursary in any Scottish University, and it is not offered for competition in any year where there is a vacancy in the Pitt Divinity Scholarship or the Maxton Divinity Scholarship. Next competition in March 1917. See Deed of Foundation at p. 343 of **CALENDAR** for 1875-76.

1914, J. S. EWEN, M.A., B.Sc., B.D.

GRAY SCHOLARSHIP FOR RESEARCH.

See under **Faculty of Arts.**

JEFFREY. (Open March 1915.)

These Scholarships, two in number, were founded in 1887 by Miss Jane Jeffrey, of Victoria Terrace, Portobello. They are each of the annual value of about £92 (under deduction of Examiners' fees), and are tenable for one year. They are awarded annually for special proficiency in the subjects embraced in each of the four departments of Divinity, Hebrew and Semitic Languages, Ecclesiastical History, and Biblical Criticism; and are open to Students of Divinity in connection with the Church of Scotland who shall have given regular attendance for at least one Session on the Divinity Classes in this University, including the class with which the Scholarship competed for is specially connected. They are competed for in the following order:—first year, Divinity, and Hebrew and Oriental Languages; second year, Ecclesiastical History and Biblical Criticism; and so on from year to year. At the close of Session 1914-1915 the Scholarships in Divinity and in Hebrew and Oriental Languages are open. See Deed at p. 497 of **CALENDAR** for 1888-89.

The subjects of examination are:—

Divinity—

1. Melancthon's *Loci*.
2. The History of the Doctrine of Justification.
3. The Virtues and the Graces.

Hebrew and Semitic Languages (Hebrew and either Aramaic or Arabic)—

1. *Hebrew* (two papers)—1 Kings i.-iii., xvii.-xxii.; Isaiah xl.-xlviii.; Jeremiah xxx.-xxxiii.; Psalms lxiii.-lxxxix. Hebrew Prose Composition.
2. *Aramaic* (one paper)—St Mark's Gospel in Syriac, and the Aramaic portions of Daniel. Grammar. Easy sentences to translate into Syriac and Biblical Aramaic.

3. *Arabic* (one paper)—Jacob's Bible Chrestomathy and Bruennow's Chrestomathy, pp. 1-22. Grammar. Easy sentences to translate into Arabic.

1914, *Biblical Criticism*—G. T. THOMSON, M.A.
Ecclesiastical History—WALTER DAVIDSON, M.A. } equal.
 P. C. MARR, M.A.

KIDD. (Open March 1915.)

This Scholarship, which is of the annual value of about £39 (under deduction of Examiners' fees), is tenable for three years, and is awarded, after competitive examination in Theology (same as for B.D.), to students of any of the Universities of Scotland who are natives of Scotland, and who have finished their course of study with the view of becoming Ministers of the Church of Scotland. See Deed of Foundation in CALENDAR for 1879-80, p. 354.

1912, W. L. FINLAYSON, M.A., B.D.

MACKENZIE. See under Prizes.

MAXTON. (Open March 1915.)

This Scholarship was founded by the Trustees of the late John Maxton, Esq., in 1867, is of the annual value of about £42 (under deduction of Examiners' fees), and is tenable for three years. It is open only to Students who are members of the Church of Scotland, and who have completed the course of study in the Faculty of Divinity in the University of Edinburgh. See Deed of Foundation at p. 234 of CALENDAR for 1867-68.

1912, V. C. ALEXANDER, M.A., B.D.

PITT CLUB.

This Scholarship was instituted in 1862 by the Pitt Club, is of the annual value of about £140 (under deduction of Examiners' fees), and tenable for three years. By Ordinance, No. 77, of the Universities' Commissioners, this Scholarship is open to competition to all Masters of Arts of any of the Universities of Scotland who have given regular attendance in the Faculty of Divinity in the University of Edinburgh for three complete Sessions, and who are in the course of studying with the view of becoming Clergymen of the Church of Scotland. No person is admissible who has been entered as a Student of Divinity more than six years prior to the time of the competition.

Candidates are examined on (1) The Evidences of Revealed Religion; (2) Systematic Theology; (3) Hebrew; (4) Church History; (5) Biblical Criticism. It cannot be held with any other Scholarship, Fellowship, or Bursary of any Scottish University, or along with any parochial or pastoral charge, whether as minister or assistant. May be open in 1916.

1913, G. S. DUNCAN, B.A. (Cantab.), B.D.

VANS DUNLOP SCHOLARSHIP IN HEBREW AND ORIENTAL (SEMITIC) LANGUAGES. (See under **Faculty of Arts.**)

WARDLAW BEQUEST for behoof of indigent and deserving Students. (See under **Faculty of Arts.**)

II. Bursaries.

Notes.—(1) The values of Bursaries are stated *approximately*.

(2) When no statement is made to the contrary, the Patronage is in the hands of the Senatus.

(3) Presentation, as distinguished from Competition, Bursaries are indicated by the word *Presentation*.

The Bursary Examination at the beginning of Session 1914-1915 will be held on Monday, 12th, and Tuesday, 13th October, commencing on Monday at 2 P.M., and on Tuesday at 10 A.M.

Names of Candidates must be intimated to the Dean not later than 5th October.

The Subjects of Examination for ordinary Competition Bursaries open to First Year Students are as follows:—

(1) *Latin*—Tertullian's *Apologetics*, and translation from English into Latin prose.

(2) *Greek Testament*—Hebrews, James, 1 Peter, and translation from English into New Testament Greek.

(3) *Moral Philosophy*—Seth's *Study of Ethical Principles*.

(4) *Hebrew*—Davidson's *Grammar* and Exercises; Genesis i., ii.

(5) *Apologetics*—Flint's *Theism*.

ALEXANDER.

(*Presentation.*)

Founded in 1766, by the Rev. Robert Alexander, Minister of Girvan. One Bursary: about £32 a year, for 4 years. Patrons, the Kirk-session of Girvan, and Presbytery of Ayr.

It must be held by a Student from the parish of Girvan, presented by the Session; whom failing, by one within the Presbytery of Ayr, to be appointed by the Presbytery. Will be open in October 1915.

1912, G. W. HENDRIE, M.A.

ARCHIBALD OR M'GUFFIE. (May be open 1915.)

Founded in 1914 by the Rev. George M'Guffie.

A preference will be given to students bearing the name of Archibald or M'Guffie, who have been born in one of the parishes of Dollar, Tillicoultry, or Whithorn, or educated in any of the schools of these parishes; whom failing, to any youths born in any of the said parishes or educated in any of the said schools, although not bearing either of the said names. See Deed of Foundation, p. 799 of **CALENDAR** for 1914-15. Detailed Regulations will be issued early in the Session.

BAYNE. (Open Oct. 1914.)*(Presentation.)*

Founded in 1695, by Robert Bayne of Pitcairley. One Bursary: £28, 7s. 10d. a year, for 3 years. Patrons, the Society for the Benefit of the Sons of the Clergy.

The Bursary is open only to Graduates, or to Students who have passed the necessary Examinations for the Degree of M.A., but have deferred their Graduation with a view to Honours. Each Bursar shall hold the Bursary for three years, subject to the condition that he shall, during that period, give regular attendance as a Student in Theology in the University of Edinburgh. No person shall hold the Bursary along with any other Bursary, or with any Scholarship in the University.

1913, W. N. SUTHERLAND, M.A.

BLAIR. (No. 1 open Oct. 1914.)*(Presentation.)*

Founded in 1838, by Robert Blair, D.D., Barton St Andrews, Norfolk. Two Bursaries:—

(1) £16 a year, appointment annual, but renewable. Patrons, the Governors of George Heriot's Trust. The Bursary can be held only by a young man who has been educated in George Heriot's Hospital School, and has become a Student of Divinity in the University of Edinburgh. May be open in 1914.

1910, G. J. EDWARDS, M.A.

(2) About £17 a year, for 4 years. Patrons, the Principal, and the Professors of Hebrew, Divinity, and Church History. The Bursary is to be applied for the benefit of a Student of Divinity, whether a Graduate or not.

1913, P. C. MARR, M.A.

BROWN. (Open Oct. 1914.)

Founded in 1900, by Miss Janet M. Brown of Spring Gardens, Edinburgh. Three Bursaries: each £12, 5s., for 1 year.

One Bursary is awarded annually to a Student of the first year, one to a Student of the second year, and one to a Student of the third year.

1913, 1st year, J. G. G. CUTHBERT, M.A.; 2nd year,
3rd year, W. M. LAING, M.A.

BUCHANAN. (May be open Oct. 1914.)

Founded in 1646, by Buchanan of that Ilk. One Bursary: £23, 8s. 8d. a year, for 3 years. Patrons, the Town Council of Edinburgh.

The Bursary is open for competition to all Masters of Arts of any of the Universities of Scotland, or to Students who have passed the necessary Examinations for the Degree of M.A., but have deferred their Graduation with a view to Honours, and who are entering on their first or second Session in the Faculty of Divinity in the University of Edinburgh. No person is admissible to competition who has for more than one Session been

a Student in the Faculty of Divinity in any of the Scottish Universities. The Bursar holds the Bursary for three years, subject to this condition, that he shall, during that period, give regular attendance, as a Student of Theology, in the University. If it appears to the Senatus Academicus desirable, for the purpose of distributing the benefits of competitive Bursaries in Theology among Students of different years, it is lawful, for that purpose only, to appoint a Student for a shorter period. No person can hold the Bursary along with any other Bursary, Fellowship, or Scholarship in any Scottish University.

1912, A. MACKENZIE, M.A.

ETTLES. (Open Oct. 1914—see below.)

Founded in 1867, by Miss Mary Ettles of Inverness, in memory of her brother, J. Ettles, Esq., of Havannah. Three Bursaries : each about £46 a year, for 3 years.

A Bursary is awarded annually to a Student who has passed all the examinations for M.A., and is in the first year of his theological course. The Bursaries cannot be held with any other Bursaries or Scholarships.

1912, P. H. BORROWMAN, M.A.

1913, WALTER SIMPSON, M.A.

JAMES CAMPBELL, M.A. (lapsed Bursary for 1 year).

GRIERSON. (Open Oct. 1914.)

Founded in 1873, by Grierson of Ogcscastle's Trustees. Three Bursaries : each £26, 13s. 4d. (see below).

The Bursaries are one for first, one for second, and one for third year Students in Divinity. A Student from the Parish of Crawford or the Parish of Leadhills is, if he has been a good Student in Arts, and is in need of pecuniary aid, appointed to a Bursary in his first year in Divinity, and holds it (unless he has failed to show himself a diligent Student) to the end of his curriculum. If there be two or more such applicants in any year, they are to be examined. Failing any Student from one of those favoured parishes, the Bursary or Bursaries will be thrown open to competition, but the winner only holds his Bursary for one year. In the second year a Student from Crawford or Leadhills has again a preference, but holds the Bursary for one year only. Preferential Candidates must lodge their applications with the Dean on or before 15th September.

The subjects of Examination for the Bursaries, if there be competition, will be :—

For the *first* year—

Same as for ordinary Competition Bursaries.

For the *second* year—

(1) *Greek Testament*—1 Peter and Hebrews.

(2) *Hebrew*—Davidson's *Grammar*, Genesis xii.-xx., and Ruth.

(3) *Divinity*—Paulinism.

(4) *Ecclesiastical History*—To 325 A.D.

For the *third* year—

- (1) *Apologetic Theology*—Paley's *Christian Evidences*.
- (2) *Hebrew*—Exodus i.-xiv. ; Psalms lxxiii.-lxxxix.
- (3) *Ecclesiastical History*—To 325 A.D., and—of Scotland—1500 A.D. to 1600 A.D.
- (4) *Biblical Criticism*—The Epistle to the Hebrews (Introduction and Exegesis).

1913, 1st year, D. W. MACKAY ; 2nd year, J. A. INGLIS, M.A. ;
3rd year, ARCHIBALD M'HARDY, M.A.

HEPBURN. (Open Oct. 1914.)

Founded in 1838, in 1858, and in 1864, by J. Stewart Hepburn of Calquhalzie, Esq. Three Bursaries: each £20 a year, for 3 years. Patrons, The Presbytery of Edinburgh.

The sums attached to these Bursaries are payable to Divinity Students of the Church of Scotland. For one Bursary, Gaelic-speaking Students have a preference. The examination is the same as in the General Bursary Competition, with a supplementary paper on the Gospels. For particulars, apply to Rev. William Main, Clerk to Presbytery of Edinburgh, 11 Fountainhall Road, Edinburgh, before 1st October.

1911, J. H. TYTLER, M.A.

1912, J. A. HAMILTON, M.A.

1913, H. J. S. REAVELY, M.A.

HUNTER. (May be open March 1915.)

Founded in 1884, by Robert Hunter, Dalhousie Chesters. Two Bursaries: each about £33 a year, for 2 years.

These Bursaries are for the benefit of Students of the Church of Scotland, and are awarded at the close of the first Session in Divinity. Bursars must attend two Sessions in Chemistry and Geology, taking at least one of these Classes each Session. Students of the name of Hunter and Hamilton, from the parishes of Temple or Cockpen, have a preference, but preferential Candidates must attain to a fixed percentage. Bursars must produce certificates of diligence in the Classes of Chemistry and Geology. See excerpt from Deed of Foundation, p. 437 of CALENDAR for 1885-86.

1913, G. W. K. MACPHERSON, M.A.

KING WILLIAM III. (Open March 1915.)

Founded in 1695, by King William III. Two Bursaries: each about £33 a year, for 2 years.

Each Bursary is open to competition to all Masters of Arts of any of the Universities of Scotland, or Students who have passed the necessary examinations for the Degree of M.A., and who have attended for one session, and no more, in the Faculty of Divinity in the University of Edinburgh: Provided that no person shall be a competitor who has attended for one or more sessions in the Faculty of Divinity in any other of the Scottish Universities. The examinations in the competition shall be conducted by the Professors in the Faculty of Divinity in the University.

Each Bursar shall hold his Bursary for two years, subject to the condition that he shall, during that period, give regular attendance as a Student of Theology in the University. No person shall hold either of the Bursaries along with any other Bursary, Fellowship, or Scholarship of any Scottish University. When the two Bursaries fall vacant at one time, one Bursar shall be appointed for two years, and the other for one year.

1913, R. F. WILSON, M.A.

1914, J. G. G. CUTHBERT, M.A.

LOCKERBY. (Open October 1914.)

Founded in 1892, by Thomas Lockerby, London. One Bursary : £30, 7s. 4d. a year, for 3 years.

The Bursary is open to "Students who desire to become ministers of the Church of Scotland only." See Excerpt from Disposition, p. 545 of CALENDAR for 1890-91.

1911, D. M. HENRY, M.A.

MACKIE.

Founded in 1910, by William Mackie, of Knockerran, Ayrshire. One Bursary : £45 a year, for 3 years. Patrons, The Presbytery of Ayr.

The Bursary is to be held by a student studying for the ministry of the Established Church of Scotland, during the period of his attendance at the Divinity Course. Preference is given, in the first place, to a student who is a native of, or whose parents or parent reside or resides in (1) the Parish of Dailly, or (2) the Parish of Barr, or (3) the Parish of Girvan; and, failing all these three parishes, then to any student who is a native of, or whose parents or parent reside or resides within the bounds of the Presbytery of Ayr, preference being given to students who are natives of, or whose parents or parent reside or resides in Carrick. Open in 1916. Applications to be made to, and Regulations for Examination to be obtained from, the Rev. Charles Goodall, B.D., Minister of the Parish of Dailly, Ayrshire, or to D. & J. Dunlop, Solicitors, Ayr, before the end of September.

M'KISSACK.

(Presentation.)

Founded in 1902, by Mrs Jane M'Kissack, Nairn. One Bursary : £20 a year, for 4 years. Patrons, the M'Kissack Trustees.

The Bursary is given for assisting Candidates in preparing for the office of a Christian Missionary to the Jews, and is tenable at any College, University, or Theological Seminary adapted to such preparation. A preference is given to a Medical Candidate, and also to a Candidate of the name of M'Kissack. Further information may be obtained from Messrs Lamb & Co., Solicitors, Nairn. May be open in 1916.

MACLAINE (GILLIAN).

Founded in 1878, by Angus MacLaine, Esq., of Fascaidale, Argyllshire, in memory of his brother, Gillian MacLaine, merchant abroad. Two Bursaries : each £50 a year, for 3 years.

The Bursaries, tenable in any Scottish University, are open to Gaelic-speaking young men purposing to study for the ministry of the Church of Scotland. For Examination Syllabus, etc., apply to Very Rev. James C. Russell, D.D., 9 Coates Gardens, Edinburgh.

1913, ALEXANDER MACKENZIE, M.A.

M'LURG AND PENMAN. (May be open Oct. 1914.)

(*Presentation.*)

Founded in 1715 and 1764, by Sir James M'Lurg, of Vogrie, sometime Dean of Guild of Edinburgh; and the Rev. John Penman, minister of Bothkennar. One Bursary: £19, 14s. 10d. a year, for 4 years. Patrons, Captain R. G. G. Gilmour of Craigmillar, 1st and 3rd Presentations; the Dean of Guild of Edinburgh, 2nd Presentation.

No person shall be presented to the Bursary who is not a Master of Arts of a Scottish University.

1913, WALTER DAVIDSON, M.A.

MILLER.

Founded in 1870, by John Miller, Esq., of Burgo Park, Bridge of Allan. Four Bursaries: each about £30 a year, for 4 years. Patrons, the Magistrates and (Protestant) Ministers of Thurso.

The Bursaries are open to Students of any Presbyterian Church, preparing for service in the foreign field. In the choice of young men suitably qualified, the County of Caithness shall have the first preference, then the County of Sutherland, then the County of Ross, then the County of Shetland and Orkney; failing all which, the selection may take place from any part of Scotland. Further particulars may be had on application to Wm. M. Brims, Solicitor, Thurso.

1913, W. B. CAMPBELL.

MYLNE.

Founded in 1879 by Mrs Barbara Macaulay or Mylne, in memory of her husband, the Rev. Andrew Mylne, minister of the Parish of Dollar, One Bursary: £30 a year, for 3 years. Patrons, the Moderator, Procurator, and Principal Clerk of General Assembly.

The Bursary (being the free proceeds of £750) which is for behoof of Students for the ministry of the Church of Scotland, of Scottish birth, tenable during the curriculum in Divinity, is awarded at the end of the session, after examination (of first year students) on the subjects taught in the Theological Classes during the session. No one may become a Candidate who has not given his whole time to study during the session preceding the date of Examination, nor may the holder engage in paid work during any session in which he holds the Bursary. It cannot be held along with any other Bursary, Scholarship, or Endowment. See Deed of Foundation at p. 377 of CALENDAR for 1880-81.

1914, JOHN YOUNIE, M.A.

NAIRNE (AGNES).*(Presentation.)*

Founded in 1703, by Agnes Nairne.

The Bursary is at present in abeyance.

NAIRNE (JAMES).*(Presentation.)*

Founded in 1695, by James Nairne. One Bursary: £16, 9s. a year, for 3 years. Patron, the Professor of Divinity.

The Bursary is open only to Graduates, or to Students who have passed the necessary Examinations for the Degree of M.A., but have deferred their Graduation with a view to Honours. It is tenable for three years, or for such period as the Bursar shall give regular attendance as a Student of Theology in the University of Edinburgh. See Ordinance, No. 67, of the Universities' Commissioners, and subsequent Order in Council.

1913, F. J. SLEATH, M.A.

RAMSAY. (Open Oct. 1914.)

Founded in 1687, by Andrew Ramsay and Sir Andrew Ramsay of Abbotshall. One Bursary: about £20 a year, for 3 years. Patrons, the Town Council of Edinburgh.

The Bursary is open for competition to all Masters of Arts of any of the Universities of Scotland, or to Students who have passed the necessary Examinations for the Degree of M.A., but have deferred their Graduation with a view to Honours, and who are entering on their first or second Session in the Faculty of Divinity in the University of Edinburgh. No person is admissible to competition who has for more than one Session been a Student in the Faculty of Divinity in any of the Scottish Universities. The Bursar holds the Bursary for three years, subject to this condition, that he shall, during that period, give regular attendance, as a Student of Theology, in the University. If it appears to the *Senatus Academicus* desirable, for the purpose of distributing the benefits of competitive Bursaries in Theology among Students of different years, it is lawful, for that purpose only, to appoint a Student for a shorter period. No person can hold the Bursary along with any other Bursary, Fellowship, or Scholarship in any Scottish University.

1911, ROBERT KERR, M.A.

RENTON.

Founded in 1882, by William Renton, of 20 Royal Terrace, Edinburgh. One Bursary: about £27 a year, for 3 years. Patrons, the Professors of Theology.

The Bursary may be held for three years, if the Bursar continues so long to prosecute his studies in Theology at the University of Edinburgh, with a view to the ministry in the Church of Scotland, and if not, then for

the whole period he continues at the same. The student presented must have attained the age of sixteen, and not exceed the age of twenty-one years, and must be appointed after an examination in the month of November on such subjects as the Professors of the Faculty of Theology consider proper. Open Oct. 1916.

1913, J. M. GOW, M.A.

SHARP.

Founded in 1856, by John Sharp, Esq., Perth. One Bursary: £18 a year, for 4 years. Patrons, the Presbytery of Perth.

The Bursar must be a Student of Divinity of the Church of Scotland, and may prosecute his studies at any one of the Scottish Universities. Preference is given to any student of the name of Sharp or Sim, or, failing such, to one being a native of or subject to the jurisdiction of the Presbytery of Perth. Apply to the Clerk to the Presbytery of Perth.

1910, A. A. HAMILTON, M.A.

SIMSON.

Founded in 1889, by James Simson, Edinburgh.

(No Bursaries are at present awarded in Divinity; but see Simson Bursaries in Faculty of Arts.)

STRUTHERS AND LEIGHTON.

Founded in 1666 and 1685, by William Struthers and Archbishop Leighton respectively. One Bursary: £26, 16s. a year, for 3 years. Patrons, the Town Council of Edinburgh.

The Bursary is open by competition to all Students who are Masters of Arts, or who have passed all the examinations necessary for admitting them to the degree of Master of Arts, and who are entering on their first session of attendance in the Faculty of Divinity in the said University.

1913, R. W. TURNBULL, M.A.

THOMSON. (May be open Oct. 1914.)

Founded in 1878, by Dr Andrew Thomson. Two Bursaries: each £33, 6s. 8d. a year, for 3 years. Patrons, the Trustees of Dr Thomson.

Students of the name of Thomson or Traquair, or who are natives of the town or county of Dumfries, or of the city of Edinburgh have a preference. The Candidates must be matriculated Students (not necessarily Graduates) entering on their first Session in Divinity, and are required to intimate their intention to compete to the Agents for the Trustees, Messrs Traquair, Dickson & Maclaren, W.S., 11 Hill Street, Edinburgh, one week before the date of Examination. If no Candidate with a preferential claim appear, or if none such attain to the required standard in the Examination, the Bursary will be awarded to the best non-preferential Candidate attaining such standard. The subjects of examination are Latin (100 marks), Moral Philosophy (50 marks), Elementary Hebrew (100 marks), Apologetics (100 marks), and Greek Testament (100 marks). See page 374 of CALENDAR for 1880-81.

1912, HERBERT SHIRLAW, M.A.

WEBSTER. (Larger Bursary open Oct. 1914.)

Founded in 1878, by Mrs Isabella Webster, 38 Heriot Row, Edinburgh, in memory of her husband, George Webster, Esq. Three Bursaries: two, each of about £65 a year, for 3 years; one of about £43 a year, for 3 years. The Bursaries are open to Students of Divinity in connection with the Church of Scotland, in their first year, who have successfully passed all their examinations for the degree of M.A. in any Scottish University, whether they have actually graduated or not. See Deed of Foundation in *CALENDAR* for 1878-79, p. 377.

1911, A. E. WARR, M.A.

1912, G. T. THOMSON, M.A., B.A. (Oxon.).

1913, THOMAS HUTCHISON, M.A.

The following *ARTS BURSARIES* are also tenable in the Faculty of Divinity:—

Chrystie
Glenbuck
Jamieson

Maule
Fraser (Thomas)
Grant

Maclaurin
Sibbald
Strang Steel

III. Prizes.**BARTY MEMORIAL PRIZE.**

This Prize, of about £20, for scholarship in Hebrew and Hellenistic Greek, is open to entrants to the Divinity Halls of the four Scottish Universities. Competitors must apply to J. W. Barty, Esq., Solicitor, Dunblane.

1913, R. W. TURNBULL, M.A.

GRAY ESSAY PRIZES. (See under *Faculty of Arts*.)**GUNNING VICTORIA JUBILEE PRIZES.**

With a view to promote the study of Natural Science among candidates for the ministry, and to bring out among ministers the fruits of study in Science, Philosophy, Language, Antiquity, and Sociology, Dr R. H. Gunning, of Edinburgh, and Rio de Janeiro, has founded ten prizes in the Faculty of Divinity of the University of Edinburgh, to be known as "The Gunning Victoria Jubilee Prizes."

These prizes are ten in number, and comprise a series of five prizes of £50, £40, £30, £20, and £10, for excellence in Theological subjects, and a series of five prizes of similar values for excellence in Natural Science subjects. In their order, the prizes in each series correspond in value. A minimum standard of proficiency will be required in each series. The successful competitors may each take both the prize in the Theological, and the prize in the Natural Science series, to which their marks may respectively entitle them.

The prizes are competed for triennially, at the close of the Divinity Session, and are open to all Students of the Church of Scotland, or other Scottish Churches holding the Confession of Faith, who are graduates of this University, or have attended two classes in the Faculty of Divinity in this University, and who have completed their Theological curriculum within two years of the close of the Session when the competition takes place.

Candidates must enter both for the Theological and Science subjects, and a minimum of proficiency is required in each.

The examination in the Natural Science series will be on Natural History, Botany, and Geology, and of the same standard as the First B.Sc. Examination in pure Science. The examination in the Theological series will be in Theology proper, the Language and Literature of the Old Testament, Ecclesiastical History, and Biblical Criticism.

The Examiners are the Professors of the subjects of examination in the University of Edinburgh, with the addition of a member of the Senatus of the New College, to be appointed by the Faculty of Divinity. See Revised Scheme, page 519 of *CALENDAR* 1889-90.

The next examination under this scheme may be held in May 1917.

Third Prize in Theological Subjects, and Fifth Prize in Natural Science Subjects.

1914, *Theological Series*—Second Prize, J. S. EWEN, M.A., B.Sc., B.D. ;
Third Prize, JAMES CAMPBELL, M.A.

Science Series—Second Prize, J. S. EWEN, M.A., B.Sc., B.D. ;
Fifth Prize, JAMES CAMPBELL, M.A.

HEPBURN PRIZE. (Open 1914-15.)

This Prize, of £20 (which may be divided), is competed for by students of the second or third year. The subject for Session 1914-15 is "Samuel Rutherford: his Life and Times." The essay must not exceed fifty pages 4to, and is to be lodged with the Rev. William Main, 11 Fountain-hall Road, Clerk to the Presbytery of Edinburgh (from whom further particulars may be obtained), on or before 1st December 1914.

1914, J. S. EWEN, M.A., B.Sc., and G. W. HENDRIE, M.A.

LORD RECTOR'S PRIZE. (See under **Faculty of Arts**.)

MACKENZIE SCHOLARSHIP OR PRIZE. (Open Oct. 1914.)

This prize, founded under the will of the late Miss Eliza Bennie Mackenzie, Broughty Ferry, in memory of her brother, the late Reverend John Mackenzie, sometime minister of the Parish of Kettins, and of the value of about £25, is offered for an Essay on a prescribed subject connected with the history of the Christian Church, or the forms of worship thereof, or some special department of the Church's work. It is open annually to men studying for the ministry of the Church of Scotland in the Divinity Halls of any of the four Scottish Universities, or to any probationer of the Church of Scotland, within a year after completion of studies in such Institution.

Essays of competitors must be lodged with the Agents not later than 15th October.

The subject for 1914 is—"Church Affairs in Scotland, 1647-1662."

For regulations, etc., apply to Messrs J. & J. Ogilvie, Solicitors, 13 Albert Square, Dundee.

The attention of all Scholars and Bursars in the Faculty of Divinity is particularly called to the following Regulation :—

Each Scholar or Bursar, when he applies to the Factor for a payment, must produce a Certificate, signed by the Dean, or the Professor to whose department the Foundation is attached, attesting his regular attendance on the proper Classes, etc., or otherwise that he has fulfilled the conditions attached to the Foundation. Payments are made by the Factor for the University, Sir Henry Cook, W.S., 61 Castle Street, Edinburgh, on and after 14th November for the Martinmas payments, and on and after 19th May for the Whitsunday payments,—between 10 and 3 o'clock.

N.B.—Bursars, Scholars, and Fellows who desire to resign should at once announce this to the Factor. They must apply to the Factor for the instalments due to them within three months after they have become payable: otherwise they will be regarded as having resigned.

FACULTY OF LAW

DEAN—PROFESSOR JAMES MACKINTOSH, K.C., LL.D.

PROGRAMME OF CLASSES

WINTER SESSION, 1914-1915.

Note.—Further information regarding the Courses is given on the pages stated in the last column of the Table.

The Classes will be opened as follows, and will meet, unless otherwise stated infra, on five days in the week.

Classes will meet for the last time before the Christmas vacation on Saturday, 19th December 1914, will reassemble on Tuesday, 5th January 1915, and will be closed on Saturday, 20th March 1915.

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees. ¹ See also p. 476.	See also page
Public Law (i.e., a half-course in Jurisprudence, and a half-course in Public International Law)	15 Oct., 2 o'cl.	(Prof. Sir Ludovic J. Grant, Bart. . .)	£4 4"	480
Civil Law	15 Oct., 9 o'cl.	Prof. Mackintosh . . .	5 5"	478
Scots Law	15 Oct., 9 o'cl.	Prof. Rankine . . .	5 5"	479
Constitutional Law and Constitutional History	15 Oct., 5 o'cl.	Prof. Millar . . .	4 4"	481
Conveyancing	15 Oct., 9 o'cl.	Prof. Mounsey . . .	4 4"	479
Political Economy	13 Oct., 9 o'cl.	(Prof. Nicholson . . .)	4 4"	187
Political Economy (Honours Course) (<i>Monday</i> , <i>Tuesday</i> , <i>Thursday</i>)	15 Oct., 11 o'cl.	(Prof. Nicholson . . .)	3 3"	189
Ancient (Scottish) History (Honours Course) (<i>Monday</i> , <i>Wednesday</i> , <i>Friday</i>)	14 Oct., 4 o'cl.	(Prof. Hume Brown . . .)	3 3 ⁴ 5	220
Paleogeography (<i>Tuesday</i> , <i>Thursday</i>)	13 Oct., 4 o'cl.	(Prof. Hume Brown . . .)	2 2 ⁴ 5	220

Evidence and Procedure (<i>Tue., Wed., Th.</i>)	15 Oct., 5 o'cl.	W. J. Lewis, B.L.	2 2 ¹	483
Mercantile Law	15 Oct., 5 o'cl.	Henry Aitken, K.C.	4 4	484
English Law	15 Oct., 9 o'cl.	H. Burn Murdoch, B.A., LL.B.	5 5	484

SUMMER SESSION, 1915.

The Classes will open as follows, and will close on Tuesday, 20th July.

CLASSES.	Days of Opening and Hours of Lectures.		Professors and Lecturers.	Class Fees. ¹ See also p. 476.		See also page
Civil Law	13 May, 9 o'cl.		Prof. Mackintosh	£5	5 ⁰	478
Scots Law	13 May, 9 o'cl.		Prof. Rankine	5	5 ⁰	479
Forensic Medicine	20 Apl., 2 o'cl.		Prof. Harvey Littlejohn, M.B., B.Sc.	4	4	519
International Private Law	13 May, 4 o'cl.		C. R. A. Howden, M.A.	2	2	482
Administrative Law	13 May, 5 o'cl.		P. F. Wood, M.A., B.C.L., LL.B.	2	2	483
English Law	13 May, 9 o'cl.		H. Burn Murdoch, B.A., LL.B.	5	5 ⁰	484

¹ Second attendances: On £5, 6s. or £4, 4s. Courses, £3, 3s.; on £3, 3s. Courses, £2, 2s. On Half-Courses: First half, no reduction; second half, £1, 1s.; on Procedure and Evidence, International Private Law, and Administrative Law, second attendances, £1, 11s. 6d.; third or subsequent attendances, on any Class, £1, 1s.

² For a Half-Course, £2, 2s.

³ This Fee is paid in Winter, and includes the Winter and Summer Sessions. Fee for Winter Session only, £4, 4s.; for Summer Session only, £2, 2s.

⁴ Five shillings University entrance fee for non-matriculated students. (See page 35.)

⁵ Fee for both Courses, if taken in one Session, £4, 4s.

CLASS FEES IN THE FACULTY OF LAW.

All students who began their curriculum in any academic year before 1912-13, shall continue to pay the normal class fees as they have been fixed hitherto (see Programme of Classes, pages 474 and 475).

All students who began their curriculum in the academic year 1912-13, or any subsequent year, and *who intend to pursue a regular course with a view to graduation in Law*, shall pay an Inclusive Fee in place of the fees for separate classes.

The Inclusive Fee for the curriculum for the LL.B. Degree is thirty guineas, payable in three annual instalments of ten guineas each.

The Inclusive Fee for the curriculum for the B.L. Degree is twenty-two guineas, payable in one instalment of eight guineas, and two instalments of seven guineas.

The Inclusive Fee for the curriculum for the combined Degrees of M.A. and LL.B. is fifty guineas, payable in five annual instalments of ten guineas.

The Inclusive Fee for the curriculum for the combined Degrees of M.A. and B.L. is forty-five guineas, payable in four annual instalments of ten guineas, and a fifth instalment of five guineas.

All fees, whether instalments of an Inclusive Fee or normal class fees, are payable in advance.

No student who began his curriculum in the academic year 1912-13, or any subsequent year, will be admitted to a Degree Examination in any year, until he has paid in full the instalment, if any, of the Inclusive Fee payable in respect of that year and of every preceding year of his curriculum.

No student who began his curriculum in the academic year 1912-13, or any subsequent year, will be admitted to graduation until the whole of the Inclusive Fee has been paid.

The above Inclusive Fee will admit to all classes which are necessary or desirable as parts of a curriculum leading to the LL.B. or B.L. Degrees, and are approved of as such by the Dean of the Faculty.

A student may attend a non-graduating class, or any class in addition to those approved as necessary or desirable parts of a curriculum leading to the Degree, on payment of the normal class fee.

The Inclusive Fees for the Degrees of LL.B. and B.L. will cover a second attendance at not more than one class, but will not cover a third or subsequent attendance. The fees for such second or subsequent attendances remain as before (see footnotes, page 475).

A student who has paid one or more of the annual instalments of the Inclusive Fee at one Scottish University and completes his curriculum in this University, shall be required to pay the remainder of the annual instalments to this University, and these shall cover admission to such classes as may be approved by the Dean as necessary or desirable to complete his curriculum for the Degree; provided always (1) that the amount of at least one annual instalment shall be paid to this University; (2) that before he receives his Degree therein, he shall present evidence that he has paid in all an amount equal to the Inclusive Fee; and (3) that the number of classes taken in this University shall be proportionate to those instalments of the Inclusive Fee which are paid to this University.

A student who presents a certificate that he has attended a course of instruction qualifying for graduation in Law, given in a recognised University or School of Law, shall be entitled to a deduction from the Inclusive Fee of the amount paid for such course of instruction, being not in excess of the amount of the normal fee for the corresponding course given in this University, provided always that he has not already attended the latter course as part of his curriculum in this University.

COURSES OF LECTURES

CIVIL LAW.

PROFESSOR MACKINTOSH, K.C., LL.D.

The complete Course on the history and principles of Roman Law occupies three Terms, extending over the Winter and Summer Sessions, and is covered by one fee of £5, 5s. Attendance during two Terms qualifies for Graduation, but students are strongly recommended to take the full Course. It is divided as follows :—

I. HISTORY.—This Course, given during the Autumn Term, includes a sketch of the Constitutional and Legal History of Early Rome ; a survey of the primitive law in its various branches ; and a discussion of the Sources of the law, the rise and progress of Jurisprudence, Codification, and other topics belonging to the external history of the civil law down to the reign of Justinian. It is intended to serve as an historical introduction to the study of the special departments mentioned below.

II. INSTITUTES.—The remainder of the Course is devoted to a systematic exposition of the law (1) of Persons and the Family Relations, (2) of Property and Real Rights, (3) of Wills and Succession, and (4) of Obligations *ex contractu* and *ex delicto*.

These subjects are dealt with during the Spring and Summer Terms. The order in which they are taken alternates from year to year, so that attendance on two successive Summer Sessions constitutes a full Course on the Institutes.

The Lectures are adapted to the requirements of students qualifying for the legal profession in Scotland or England, or for service in India or the Colonies.

Textbooks.—The Institutes of Gaius and Justinian, and the Professor's *Roman Law of Sale*, Girard's *Droit romain*, and Sohm's *Institutes* (tr. by Ledlie, Clarendon Press), may be consulted. In connection with the Historical Lectures, students are referred to Muirhead's *Historical Introduction to the Private Law of Rome*, and Maine's *Ancient Law*.

The "Muirhead Prize" and the "Forensic Prize" are offered annually for competition.

SCOTS LAW.

PROFESSOR RANKINE, K.C., LL.D.

Students are recommended to make themselves familiar either with Erskine's *Principles* or his *Institutes* (edition by J. Badenach Nicolson, Esq., 1871). The twenty-first edition of the former work will be the textbook of the Class.

1. Sketch of the Literature of the Law of Scotland—the Sources of the Law—the Interpretation of Statutes.

2. Personal Relations—Marriage and the modes of proving it—Patrimonial effects of Marriage—Rights of Husband and Wife—Dissolution of Marriage—Divorce—Tutors and Curators—Minors—Insane—Parent and Child—Succession—Heritable and Moveable—Wills—Trusts.

3. Wrongs—Personal Injury—Defamation—Ownership of Heritable Property—Rights and Liabilities incident thereto—Ownership of Moveables—Copyright—Patents.

4. Obligations and Contracts—General Requisites, Constitution, and Construction—Agency—Partnership—Joint-Stock Companies—Sale—Letting to Hire—Leases—Carriers—Shipping—Insurance—Bills of Exchange—Extinction of Obligations—Diligence—Bankruptcy.

5. Criminal Law.

Summer Session.

The Lectures on Criminal Law, and part of the Lectures on the above subjects, are delivered during the Summer Session.

CONVEYANCING.

PROFESSOR MOUNSEY.

Definition, data, and postulates of Conveyancing. History, principles, and forms of Writs relating to (1) Tenure or Feudal Ownership; (2) Allodial Ownership; (3) Conventional Burdens and Restraints on Ownership, including Real Burden, Real Security, Trust, and Entail; (4) Engagement and Contract affecting property; (5) Succession; (6) Matrimonial and Testamentary Settlements; and (7) Real Diligence and Sequestration, so far as operating conveyance of property or restraint on ownership.

Erskine's *Principles*; Menzies', Bell's, or Wood's Lectures; Craigie's or Burns' Handbooks; Kirkpatrick on Evidence.

PUBLIC LAW.

PROFESSOR SIR LUDOVIC J. GRANT, BART., LL.D.

Two Courses will be delivered during the year:—(1) General Jurisprudence (Philosophy of Law), Oct.-Dec. 1914; and (2) Public International Law, Jan.-March 1915.

1. The Course on Jurisprudence will begin on Thursday, 15th October 1914, at two o'clock.

- (1) The Nature and Scope of Jurisprudence.
- (2) The Conception of Law—The State and the Administration of Justice.
- (3) The Material Sources of Law—Custom—Juridical Interpretation—Judicial Decision—Legislation, Sovereign and Subordinate.
- (4) Modes in which Law expressed—Statute Law and Case Law—Relative Merits and Defects of the two Types.
- (5) The Theory of Rights—Legal Personality—Acts and Events—Varieties of Rights.
- (6) The Theory of Liability—Crimes and Civil Injuries—Intention and Negligence.
- (7) Archaic Law and Early Institutions.

Books of Reference.—Austin, *Lectures on Jurisprudence*; Holland, *Jurisprudence*; Markby, *Elements of Law*; Salmond, *Jurisprudence*; Jethro Brown, *The Austinian Theory of Law*; Bryce, *Studies in Jurisprudence and Ethics*; Sir Henry Maine's works; Pollock, *History of Political Science*, and *First Book of Jurisprudence*; Clark, *Practical Jurisprudence*; Lightwood, *The Nature of Positive Law*; Dicey, *Law of the Constitution*; Jenks, *Law and Politics in the Middle Ages*; Sidgwick, *Elements of Politics*.

2. The Course on Public International Law will begin on 5th January 1915.

- (a) Historical Introduction. (b) Preliminary Topics. (c) An examination of the sources and a critical exposition of the leading doctrines of Public International Law.

Books of Reference.—Nys, *Les Origines du Droit International*; Walker, *History of the Law of Nations*; Phillipson, *International Law and Custom of Ancient Greece and Rome*; Westlake, *Inter-*

national Law; Bryce, *Holy Roman Empire*; Hall, *International Law*; Wheaton, *International Law*; Lawrence, *Principles of International Law*; Rivier, *Principes du Droit des Gens*; Nys, *Droit International, Principes Théories, Faits*; Hertslet, *Map of Europe by Treaty*; Pitt Cobbett, *Select Cases*; Holland, *Studies in International Law*; Oppenheim, *International Law*; Whittuck, *International Documents*; Pearce Higgins, *The Hague Peace Conferences, etc.*

CONSTITUTIONAL LAW AND CONSTITUTIONAL HISTORY.

PROFESSOR MILLAR.

This Course qualifies for Graduation in Law or in Arts. For Graduation in Arts the two Courses of British History and Constitutional Law and Constitutional History constitute a "double Course in Cognate Subjects" (see Additional Regulations for Degrees in Arts, III.). The Class meets on Tuesdays, Wednesdays, Thursdays, and Fridays at 5, during the Autumn and Spring Terms. The work prescribed for the Class consists of four examinations and two essays.

Subjects.—(1) The Constitutional History of England to 1707, with sketch of the Constitutional History of Scotland; (2) The Constitutional History of Great Britain to 1800, and of the United Kingdom thereafter; (3) The Law and Custom of the Constitution.

Textbooks.—Maitland's *Lectures on the Constitutional History of England*, or Medley's *English Constitutional History*. For further study, Stubbs's *Select Charters and English Constitutional History*; M'Kechnie's *Magna Carta*; Hallam's *Constitutional History of England*; Bagehot's *English Constitution*; Gneist's *English Constitution*, translated by P. A. Ashworth; Dicey's *Law of the Constitution*; Sir W. Anson's *Law and Custom of the Constitution*; Prothero's *Select Statutes, etc.*, 1558-1625; Gardiner's *Constitutional Documents, 1625-1660*; Robertson's *Select Statutes, etc.*; Pollock and Maitland's *History of English Law*; Holdsworth's *History of English Law*; Innes's *Scotch Legal Antiquities*; Terry's *Scottish Parliament*.

The Mackay Lectures by Mr D. P. Heatley, Lecturer and Assistant in History, are free to members of the Class.

FORENSIC MEDICINE.

PROFESSOR HARVEY LITTLEJOHN.

For Synopsis of this Course, see under FACULTY OF MEDICINE.

POLITICAL ECONOMY.

PROFESSOR NICHOLSON.

For Synopsis of this Course, see under FACULTY OF ARTS.

INTERNATIONAL PRIVATE LAW.CHARLES R. A. HOWDEN, M.A., *Lecturer*.

A Course of Forty Lectures on this subject will be given during the Summer Session on Tuesday, Wednesday, Thursday and Friday in each week, at 4 P.M. (this hour is subject to alteration should another be found more convenient to students). Under Ordinances 39 and 40, attendance on these Lectures qualifies as a half-course for Graduation in Law. The subject is also included among those in which Intrants to the Faculty of Advocates may be examined, and the Lectures are therefore adapted for students qualifying for the Scottish Bar.

The Lectures will deal with (a) The nature and scope of International Private Law; (b) Its History and Literature; (c) Its general principles and their application in regard to—i. *Forum*, or Competency, including Jurisdiction, the Recognition of Foreign Judgments, and Procedure generally; and ii. *Lex*, or Choice of Law, in questions of (1) the Personal Statute, including *status* and the family relations; (2) the Law of Property, moveable and immoveable; (3) the Law of Obligations, including contract and delict; (4) Succession; and (5) Bankruptcy.

Examinations will be held on the subjects of the Lectures.

Students are strongly recommended to attend the Class of Scots Law before attending this Course.

Books of Reference.—Gillespie's *Bar*, 2nd ed., 1892; Guthrie's *Savigny*, 2nd ed., 1880; Westlake's *Private International Law*, 5th ed., 1912; Dicey's *Conflict of Laws*, 2nd ed., 1908; Duncan & Dykes's *Principles of Civil Jurisdiction*, 1911.

EVIDENCE AND PROCEDURE.

W. J. LEWIS, B.L., S.S.C., *Lecturer.*

This Course of Forty Lectures will be divided between the subjects of Evidence and Procedure. The Lectures on Evidence will deal with the principles of relevancy, competency, and sufficiency of evidence, and the practice of the Courts in relation to the conduct of proof. The Lectures on Procedure will include the subjects of the constitution of the Courts and extent of their jurisdiction, the forms of proceedings competent, the principles and details of procedure, and the rules of pleading.

Attendance on this Class qualifies as a half-course for Graduation in Law.

The Lectures are delivered on Tuesday, Wednesday, and Thursday of each week during the Winter Session, at 5 P.M.

Examinations will be held on the subjects of the Lectures and prescribed parts of the Textbooks.

Textbooks.—Balfour's *Handbook of Court of Session Practice* (edition 1911); Lewis' *Sheriff Court Practice* (edition 1913); *The Parliament House Book*; Kirkpatrick's *Digest of the Scottish Law of Evidence*.

ADMINISTRATIVE LAW.

P. F. WOOD, K.C., M.A., B.C.L., LL.B., *Lecturer.*

A Course of Forty Lectures on this subject will be delivered on Tuesday, Wednesday, Thursday, and Friday of each week during the Summer Session, at 5 P.M.

Attendance on these Lectures qualifies for graduation in Law (to the extent explained in the Regulations).

The Lectures will deal with :—

Local Authorities.—Town Councils, County Councils, Parish Councils, School Boards, etc. ; their Constitution and Functions.

Central Authorities.—Scottish Office, Local Government Board for Scotland, Scotch Education Department.

Valuation and Rating.

Private Legislation, etc.

Examinations will be held on the Subjects of the Lectures.

Book of Reference.—Students should have *The Councillors' Manual* (Messrs Green & Sons) as a compendium of the Statutes concerning Administrative Law.

MERCANTILE LAW.

HENRY AITKEN, K.C., *Lecturer.*

A Course of Eighty Lectures on this subject will be delivered during the Winter Session on five days a week, at 5 P.M.

Attendance on these Lectures qualifies for graduation in Law and also in Arts.

The Lectures will deal with :—

1. The Origin and Growth of the Law Merchant in Europe.
2. The Law of Contracts in General.
3. The Law of the Special Contracts relating to Mercantile Affairs.
4. The Law of Joint Stock Companies.
5. The Law of Insolvency and Bankruptcy.
6. The Law relating to Judicial Factors.
7. The Law of Arbitration.
8. The Law of Patents, etc.

Textbooks.—Bell's *Principles of the Law of Scotland*; Erskine's *Principles*; Smith's *Compendium of Mercantile Law*; Pease and Latter's *Law of Contract*; Topham's *Company Law*; Esslemont's *Scots Mercantile Law*; Goudy on the *Law of Bankruptcy*.

Graduation in Law (Degrees of LL.B. and B.L.) and in Arts.
—Candidates will be examined on the subjects dealt with in the Lectures.

Graduation in Arts. Honours in Economic Science Subjects.
—Candidates will be examined on the subjects dealt with in the Lectures. Also on Mitchell on the *History of the Law Merchant*, and Smith's *Compendium of Mercantile Law*.

ENGLISH LAW.

HECTOR BURN MURDOCH, B.A., LL.B., *Lecturer.*

The complete Course on English Law extends over the Winter and Summer Sessions, and is covered by one fee of £5, 5s. The branches are treated in the following order :—

Criminal Law and outline of Criminal Procedure; Law of Evidence, Civil and Criminal; Law of Contract, Agency, Sale, Personal Property, including Contracts with Carriers and other Bailments, Bills, Patents, Companies, etc.; Law of Torts; Outline of Civil Procedure in King's Bench Division; Real Property; Wills; Conveyancing; Principles of Equity; Trusts; Administration; Marshalling; Conversion; Satisfaction.

Winter Session.—The subjects covered in the Winter Session extend down to the beginning of the Law of Real Property. Accordingly all the portions of the Course applicable to the requirements of candidates for the Civil Service Examinations are dealt with in the Winter Session.

Books of Reference.—Students are recommended to familiarise themselves with a standard elementary textbook upon each of the main divisions of English Law, among which are the following:—*Criminal*, Kenny; *Contract*, Anson, or Potts, or Pollock; *Personalty*, Goodeve or Williams; *Torts*, Pollock or Salmond; *Procedure*, Odgers or Baty; *Realty and Conveyancing*, Williams, or Edwards, or Topham; *Equity*, Indermaur or Strahan. The following are also recommended for reference:—Kenny's or Wilshire's *Select Criminal Cases*; Shirley's *Leading Cases on the Common Law*; Cockle's *Select Cases on Evidence*; Kenny's *Select Cases on Tort*.

REGULATIONS FOR GRADUATION IN LAW.

LL.B. and B.L.

Two Degrees in Law are conferred, on Examination, viz., Bachelor of Law (B.L.) and Bachelor of Laws (LL.B.). Either Degree admits to the profession of Law Agent, provided the Candidate has included Scots Law and Conveyancing among his Graduation subjects, and has passed an Examination in the Practice of the Courts under the Law Agents Act.

The Degree of LL.B., if the Candidate has been examined in Civil Law, Philosophy of Law, International Law (Public or Private), Constitutional Law and History, Forensic Medicine, Scots Law (Civil and Criminal Law, including Evidence and Procedure), and Conveyancing, admits to the profession of Advocate.

Two Law Graduation Examinations are held annually—in October and in March.

I. BACHELOR OF LAWS (LL.B.).

I. No one is admitted to examination as a Candidate for the Degree of Bachelor of Laws (LL.B.) unless he be a Graduate in Arts of one of

the Universities of the United Kingdom, or of any Foreign or Colonial University specially recognised for the purpose by the University Court.¹

II. The course of study in Law for the Degree of Bachelor of Laws includes the following subjects :—

- (1) Jurisprudence, General or Comparative, during a course of not less than forty lectures.
- (2) The Law of Nations, or Public International Law, during a course of not less than forty lectures.
- (3) Civil Law, during a course of not less than eighty lectures.
- (4) Law of Scotland, or Law of England, during a course of not less than eighty lectures.
- (5) Constitutional Law and Constitutional History, during a course of not less than eighty lectures.
- (6) Conveyancing, or Political Economy, or Mercantile Law, during a course of not less than eighty lectures.
- (7) Any two of the following subjects, namely :—International Private Law, Political Economy, Administrative Law, Evidence and Procedure, and Forensic Medicine, in each case during a course of not less than forty lectures; or such other subject included in the Department of History and Law or in the Faculty of Law as the Senatus, with the approval of the University Court, may from time to time determine.

III. (1) The course of study necessary for the Degree of Bachelor of Laws extends over three academical years, one of which at least must be spent in the University in which the Candidate intends to graduate, the other two may be spent in any other University or School of Law, specially recognised by the University Court.²

(2) No Candidate for a Degree is deemed to have attended a class as part of the course of study necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

IV. Candidates must undergo examination in the subjects prescribed in Section II. hereof; and they must pass at one examination in at least two of these subjects. Before presenting themselves in any subject, the Candidates must have attended the requisite course of instruction in such subject. Candidates who have passed an examination for another degree in any of the said prescribed subjects in the same University may be exempted from examination in such subject or subjects, provided that the examiners are satisfied that the previous examination in such subject or subjects has been passed on a sufficiently high standard.

¹ In terms of this section, the B.A. Degrees of the following have been recognised :—New Zealand University; Cape of Good Hope University; Dalhousie University, Halifax, Nova Scotia; Queen's College, Kingston, Canada; McGill University, Montreal; the Universities of Calcutta, Madras, Allahabad, Toronto, Harvard, and Michigan.

² Recognised in terms of this section: the Universities of Oxford, Cambridge, and Dublin; the Inner and Middle Temples; Lincoln's Inn; Gray's Inn; the Madras Law School; College of Law, University, Minnesota; McGill University, Montreal; University College and King's College, University of London; the Maharaja's Law College, Trivandrum; Ripon College, University of Calcutta.

V. Every Candidate for the Degree of Bachelor of Laws is examined, both orally and in writing, on each of the subjects in the course of study above prescribed in which he presents himself for examination.

VI. (1) Distinction may be awarded to Candidates who have displayed exceptional merit in their examinations.

(2) For the Degree of Bachelor of Laws a diploma is given, setting forth the subjects in which the Candidate has passed, and the distinction (if any) he has attained.

Candidates for Examination or Graduation must matriculate for the year.

II. BACHELOR OF LAW (B.L.).

The following Regulations came into force at the beginning of the Summer Session 1912.

I. Subject to the provision contained in Section II. hereof, each student before entering on his curriculum of study shall have passed—Latin being one of the subjects—

(a) The Preliminary Examination in the Faculty of Arts; and the conditions with respect thereto shall be applicable in all respects except as follows, viz., Latin shall be passed on the higher standard; or

(b) Such other Examination as the Joint Board of Examiners may from time to time accept as equivalent to the said Preliminary Examination in Arts, in which Latin has been passed on the higher standard, provided always that the Joint Board of Examiners shall have power to require, as a condition of such acceptance, that the said Examination shall be passed on a higher standard than the ordinary pass standard thereof.

II. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class as qualifying for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint; and in every such case the Senatus shall make a report to the University Court, setting forth the reasons for the relaxation.

III. A degree in Arts or Science or Economics (not being a degree *honoris causâ tantum*) in any of the Universities in the United Kingdom, or of any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the Senatus, shall exempt from the Preliminary Examination.

IV. The curriculum of study in Law necessary for the degree of Bachelor of Law (B.L.), shall include the following subjects:—

(1) Civil Law during a course of not less than eighty lectures.

(2) Law of Scotland during a course of not less than eighty lectures.

(3) Conveyancing, or Constitutional Law and (Constitutional) History, or Mercantile Law during a course of not less than eighty lectures.

(4) Jurisprudence, or Forensic Medicine, during a course of not less than forty lectures.

(5) Constitutional Law and (Constitutional) History, or Mercantile Law, if not already taken, or Political Economy, during a course of not less than eighty lectures, or any two of the following subjects, each during a course of not less than forty lectures: Jurisprudence, or Forensic Medicine, if not already taken, Public International Law, International Private Law, Evidence and Procedure, or such other subject included in the Department of History and Law or in the Faculty of Law as the Senatus, with the approval of the University Court, may from time to time determine.

V. (1) The curriculum of study in Law necessary for the degree of Bachelor of Law (B.L.), shall extend over three academical years, and in each academical year a candidate shall attend at least one course of eighty lectures, or two courses of forty lectures each.

(2) No candidate for the degree shall be deemed to have attended a class as part of the course of study necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

(3) The candidate may prosecute his studies during the prescribed three years in one Scottish University, or in different Scottish Universities, or in a Scottish University and a University or School of Law specially recognised by the University Court; but two at least of these years must have been spent, and all the examinations in the subjects mentioned in the preceding section must have been passed at the University in which he intends to graduate; provided also, that where in any University or School of Law attended by the candidate a full course of eighty lectures in Civil Law is not available, and the candidate shall have there attended a shorter course in Civil Law, then he shall be required to take, in addition to the five subjects prescribed in Section IV. hereof, a course of not less than forty lectures in an additional subject in the Department of History and Law or in the Faculty of Law.

VI. A candidate for the degree of Bachelor of Law (B.L.) must undergo examination, and pass in the whole subjects hereinbefore prescribed; and he may present himself for examination in all or any two of the subjects in which he has completed his course of study, and he must pass at one examination in at least two of these subjects, unless he shall previously have passed in all but one of the subjects hereinbefore prescribed, in which case he may present himself for examination and may pass in that one subject.

VII. Every candidate for the degree of Bachelor of Law (B.L.) shall be examined both orally and in writing on each of the subjects which he professes. The standard of examination in the subjects common to the degrees of Bachelor of Laws (LL.B.) and Bachelor of Law (B.L.) shall be the same.

VIII. (1) Distinction may be awarded to candidates who have displayed exceptional merit in their examinations.

(2) For the degree of Bachelor of Law (B.L.) a diploma shall be given, setting forth the subjects in which the candidate has passed, and the distinction (if any) he has attained.

IX. Every student who, at the time when this Ordinance shall come into operation, shall have completed a part of his course with a view to graduation as a Bachelor of Law in any Scottish University under Regulations hitherto in force in that University, and shall thereafter complete his course of study in conformity with such Regulations, may become a candidate for the degree of Bachelor of Law, without complying with the provisions of this Ordinance; or he may complete his course of study, and become a candidate for said degree in accordance with the provisions of this Ordinance: Provided always that in the latter case he shall not be deemed to be disqualified if he shall have passed the Preliminary Examination prescribed in Section I. hereof after entering on his curriculum of study.

Subjects of Examination for 1914-15.

FOR DEGREES OF LL.B. AND B.L.

In GENERAL JURISPRUDENCE the subjects will be *Analytical and Historical Jurisprudence*. For books recommended, see Synopsis of the Professor's Lectures.

In PUBLIC INTERNATIONAL LAW the examination will be in the doctrines of the Law and the historical and scientific questions connected therewith. For books, see Synopsis of the Professor's Lectures.

In CIVIL LAW the examination will be on the History of the Law, and on its Principles as explained in the Institutes of Gaius and Justinian. The paper will contain passages from these texts for translation into English. Candidates for LL.B. will also be examined on Books xviii., tit. i. (*De contrahenda emptione*) and xix., tit. i. (*De actionibus empti venditi*) of the Digest.

In CONSTITUTIONAL LAW AND CONSTITUTIONAL HISTORY—The Constitutional Law and Constitutional History of England, Great Britain, and the United Kingdom. For books recommended, see Synopsis of Lectures.

In the LAW OF SCOTLAND the subject will be the Municipal Law, Civil and Criminal. The works of Mr Erskine, Mr G. J. Bell, and Lord Kingsburgh, in the latest editions, are recommended to Candidates.

In CONVEYANCING the subject of examination will be—The subjects of the Course, excluding Compulsory Sale, Leases, Real Diligence, and Sequestration. Candidates are expected to show evidence of independent study and research outside the lectures.

In FORENSIC MEDICINE—The subjects of the Course, with the exception of Toxicology.

In POLITICAL ECONOMY, Candidates are recommended to read, in addition to the books set for the M.A. examination, the Professor's *Principles of Political Economy*, books i.-iii.

In INTERNATIONAL PRIVATE LAW Candidates will be examined on the subjects dealt with in the Lectures. See Synopsis of Lectures.

EVIDENCE AND PROCEDURE.—Candidates will be examined on the subjects dealt with in the Lectures and Text-books. See Synopsis of Lectures.

ADMINISTRATIVE LAW.—Candidates will be examined on the subjects dealt with in the Lectures. See Synopsis of Lectures.

MERCANTILE LAW.—Candidates will be examined on the subjects dealt with in the Lectures. See Synopsis of Lectures.

ENGLISH LAW.—Candidates will be examined on the subjects dealt with in the Lectures, including the Law of Real and Personal Property, Equity, and Conveyancing, the Laws of Contract, Torts, Crimes, Evidence, and Procedure. See Synopsis of Lectures.

Examination Fees.

I. PRELIMINARY EXAMINATION FOR B.L.

For each examination on Standard of M.A. Preliminary Examination, ... £0 10 6

II. LAW EXAMINATIONS FOR LL.B. AND B.L.

The fee payable for LL.B. is £6 6 0
or

If the Examination be taken at two or more periods—

For the First, ... £3 3 0

For the Second, ... 3 3 0

The fee payable for B.L. is £5 5 0
or

If the Examination be taken at two or more periods—

For the First, ... £3 3 0

For the Second, ... 2 2 0

Candidates for LL.B. or B.L. who fail in the Examinations pay a fee of 10s. 6d. for re-appearance in each subject.

Candidates for Examination or for Graduation must be Matriculated Students of the Academic year.

Fee for registration as a member of the General Council (if not already registered), £1.

Time-Table of Examinations and Dates of Entry, 1914-1915.

Candidates are required to enter for each periodical Examination at which they desire to appear, and to state the subject or subjects in which they desire to be examined. When the fee has been previously paid, a pass to the examination must be obtained.

When names are not entered, and fees paid, on or before the stated dates, an additional or late-entry fee of ten shillings must be paid before the Candidates can be admitted to examination. This fee will not be received after Twelve o'clock of the last day but one preceding the Examination for which the Candidate desires to appear, without the express permission of the Dean of the Faculty, and the subsequent sanction of the Senatus.

Preliminary Examination.

ARTS, SCIENCE, AND LAW (B.L.).

The Preliminary Examinations in General Education are held in Autumn and Spring.

Entries must be made at the Matriculation Office, University (Old) Buildings, between 1st and 4th September (office hours, 10 to 1) for the Autumn Examination, and between 24th February and 1st March (10 to 4) for the Spring Examination. See pages 85 and 88.

Graduation Examinations.

1914.

Sept.	23, Wed.	} Names to be given in, certificates shown, and fees paid.
"	24, Th.	
Oct.	1, Th.	Mercantile Law, 9-11, 11.30-1.30; Political Economy, 3-5.
"	2, Fri.	Civil Law, 9-11, 11.30-1.30; Political Economy, 3-5.
"	3, Sat.	General Jurisprudence, 9-11; Public International Law, 11.30-1.30; Constitutional Law and Constitutional History, 2-4.
"	5, Mon.	Scots Law, 9-11, 11.30-1.30; English Law, 9-11, 11.30-1.30; Constitutional Law and Constitutional History, 2-4.
"	6, Tu.	Conveyancing, 9-11, 11.30-1.30; Forensic Medicine, 2-4.
"	7, Wed.	International Private Law, 9-11; Evidence and Procedure, 12-2; Administrative Law, 3-5.
"	12, Mon.	Oral Examinations.

1915.

March	4, Th.	} Names to be given in, certificates shown, and fees paid.
"	5, Fri.	
"	15, Mon.	Scots Law, 9-11, 11.30-1.30; English Law, 9-11, 11.30-1.30; Constitutional Law and History, 2-4; Mercantile Law, 5-7.
"	16, Tu.	General Jurisprudence, 9-11; Public International Law, 11.30-1.30; Constitutional Law and History, 2-4; Mercantile Law, 5-7.
"	17, Wed.	Conveyancing, 9-11, 11.30-1.30; Forensic Medicine, 2-4; Political Economy, 5-7.
"	18, Th.	Civil Law, 9-11, 11.30-1.30; Political Economy, 5-7.
"	19, Fri.	International Private Law, 9-11; Evidence and Procedure, 12-2; Administrative Law, 3-5.
"	22, Mon.	Oral Examinations.

GRADUATION CEREMONIALS.

Oct.	1914.	} Names to be entered at least three days previously.
	16, Fri.	
March	1915.	
July	30, Tu.	
	2, Fri.	

SCHOLARSHIPS, BURSARIES, PRIZES, ETC., IN THE FACULTY OF LAW.

I. Scholarships.

Where the competition is open to Graduates, their standing will be computed from the date of the Graduation Ceremonial immediately following the completion of their Law Examinations.

VANS DUNLOP SCHOLARSHIPS.

Two Scholarships, each of £100 per annum, and tenable for three years :—

1. THE LAW OF NATURE AND NATIONS, CIVIL LAW, AND CONSTITUTIONAL LAW AND HISTORY.

The Regulations for competition are as follows :—

(a) The Competition is open to all Candidates who, within the three years immediately preceding the date of competition, shall have graduated in Law in this University, or shall have passed the Graduation Examination in the three subjects of examination for the Scholarship : provided, in the latter case, they have obtained an average of not less than 75 per cent. of marks in these three subjects.

(b) Candidates are required to matriculate for the year in which the competition takes place, and must produce evidence that they are eligible.

(c) The Competition is by written Essays on branches of law to be announced at least one year before the date of competition. The usual date of the Competition is the beginning of November.

(d) The Examiners are the Professors of the prescribed subjects, assisted by the additional Law Examiners.

Next vacancy in October 1916.

Each holder of the Scholarship will be required to deliver, to the satisfaction of the Faculty of Law, two courses of three lectures each on one of the subjects of examination for the Scholarship, viz., one course in the second, and the other in the third year of his tenure.

1913, J. WALLACE MENZIES, M.A., LL.B. } equal.
JOHN PROSSER, Junr., M.A., LL.B. }

2. SCOTS LAW AND CONVEYANCING.

(a) The Competition is open to all Candidates who, within the three years immediately preceding the date of competition, have graduated in Law in this University, or have passed the Graduation Examination in Scots Law, Conveyancing, and Forensic Medicine, provided they have obtained at the Graduation Examination an average of not less than 75 per cent. of marks in these three subjects.

(b) Candidates are required to matriculate for the year in which the competition takes place, and must produce evidence that they are eligible.

(c) The Competition is by written Essays on (1) The Civil Law of Scotland; (2) the Criminal Law of Scotland; and (3) Conveyancing: the particular branches of which are as follows:—1. Scots Law: (i.) The Law of Succession; (ii.) The History of Criminal Procedure. 2. Conveyancing: the subjects of the Course, excluding Compulsory Sale, Leases, Real Diligence, and Sequestration. The usual date of the Competition is the beginning of November.

(d) The Examiners are the Professors of the prescribed subjects, assisted by the additional Law Examiners.

Next vacancy in 1914. Names must be entered by 15th October.

Each holder of the Scholarship will be required to deliver, to the satisfaction of the Faculty of Law, two courses of three lectures each on one of the subjects of examination for the Scholarship, viz., one course in the second, and the other in the third year of his tenure.

1911, J. KERR WYLIE, M.A., LL.B.

LORIMER TRAVELLING SCHOLARSHIP.

The Lorimer Travelling Scholarship, of the annual value of about £55, tenable for two years, for the encouragement of the study of the "Law of Nature and Nations" in foreign Law Schools by Students and Graduates in the Faculty of Law, was founded by the Lorimer Memorial Committee and the Association for the better Endowment of the University. The Scholarship is open to Candidates who, during the two years immediately preceding that in which a scholar falls to be appointed, have completed the examinations for a Degree in Law in the University in the following subjects, namely—(1) The "Law of Nature and Nations" (including therein the Philosophy of Law); (2) The Civil Law; and (3) Either (a) Constitutional Law and History, or (b) Political Economy. The foreign Law School or Schools which the Scholar proposes to attend must be previously approved by the Faculty of Law. The Candidate who, in the opinion of the Faculty of Law, passes with most distinction in the examinations for Graduation in Law, in the subjects above set forth, during the two years immediately preceding the election, and who is willing to fulfil the conditions imposed by the Deed of Foundation, will be eligible, consideration being always given to his proficiency in the first of the above-named subjects, and to his knowledge of the modern language or languages spoken in the Law School or Schools where he proposes to study. For Deed of Foundation, see CALENDAR for 1892-93, p. 538. The Scholarship may be open in July 1916.

1914, W. G. M. DOBIE, M.A.

GRAY SCHOLARSHIP FOR RESEARCH. See under
Faculty of Arts.

THOW SCHOLARSHIPS.

These Scholarships, three in number, each of the value of about £25, and tenable for one year, were founded by the Trustees of the late Miss Christiana Thow, of Craigmore, West Ferry, near Dundee, according to

the desire of Miss Christiana Thow and her sister, Miss Margaret Thow, and out of respect to the memory of their brothers.

The following are the Rules and Regulations applicable to the said Scholarships :—(1) The Scholarships shall be distributed annually, one to the most distinguished student for the Winter Session in the Class of Scots Law at the University of Edinburgh ; another to the most distinguished for the Winter Session in the Class of Conveyancing at the said University ; and the third to the most distinguished student for the Winter Session in any two of the following Classes at the said University, viz. :—Public Law, Civil Law, and Constitutional Law and History. (2) Each of the Scholarships shall be tenable only for one year by the student in the subject for which it has been bestowed upon him, but the same student may competently obtain one of the Scholarships set apart for the other subjects in a succeeding session, provided he has the necessary qualification. (3) No Student can hold two of these Scholarships for the same year, although he may have satisfied the conditions in other respects. In the event of any Student being first as regards two of the Scholarships, the Faculty of Law shall determine which Scholarship shall be awarded to him, and which shall be taken by the next most distinguished Student. (4) There shall be no restriction as to holding one of these Scholarships along with another Scholarship or Bursary from another source.

1914 (*Scots Law*), E. C. B. KIRSOPP.

(*Conveyancing*), J. S. C. REID, B.A., LL.B.

(*Public Law, Civil Law and Constitutional Law and Constitutional History*) (W. G. M. DOBIE } equal.
(W. M. MITCHELL }

WARDLAW BEQUEST for behoof of indigent and deserving Students. See under **Faculty of Arts**.

II. Bursaries.

The subjects of examination for first-year Bursaries are Latin and Moral Philosophy, and are the same as the October Examinations in these subjects for M.A. Candidates are required to enter their names at the *Matriculation Office* on or before 22nd September. Candidates for the second and third year Grierson Bursaries must apply on or before 10th October, and must state what distinctions they have attained in the Law Classes of the previous year.

GRIERSON BURSARIES.

Founded in 1873 by the Grierson Trustees : annual value about £26, 13s. 4d.

Deserving Students from the parishes of Crawford or Leadhills, applying to the Clerk of Senatus on or before the 1st day of September, are entitled to preference, if they satisfy certain conditions ; and if the applicant is commencing his first Winter Session of the Law Curriculum he will be entitled to hold the Bursary for three years, provided "he prosecutes his studies with proper diligence."

Failing preferential candidates, the Bursaries will be tenable for one year only, and will be awarded to candidates who have attended one

year in the Faculty of Arts in some University. 1. In the case of those commencing their first Winter Session in Law, the award will be to the candidate who has passed highest in Latin and Moral Philosophy at the Arts Graduation examination in October. 2. In the case of candidates commencing their second Winter Session—to the most distinguished law-student of that standing, who, if not a Graduate in Arts, has passed satisfactorily in Latin and Moral Philosophy at the Arts Examination, either in October or earlier. 3. In the case of candidates commencing the third Winter Session of the Law Curriculum—to the most distinguished law-student of that standing who, if not a graduate in Arts, has passed satisfactorily in Latin, Moral Philosophy, and Logic at the Arts Examination in October or earlier. See Regulations, CALENDAR 1877-78, p. 370.

1913—2nd year, IAN A. MACKENZIE, M.A.; 3rd year, T. M. COOPER, M.A.; Lapsed, CHARLES MACKINTOSH, B.A.

CAIRNS BURSARY.

Founded in 1873 by Geo. Cairns, Solicitor: about £18, 11s. 6d. annually.

The Bursary is tenable for one year only, and is not subject to any preferences. The competition is subject to the same conditions as those for the second year Grierson Bursary. It is open to Students who have completed one year in the Faculty of Law.

1913, (Lapsed) W. R. BLAIR, M.A.

THOMSON BURSARIES.

Founded in 1878 by Dr Andrew Thomson. Three Bursaries: each £25 a year, for 4 years. Patrons, the Trustees of Dr Thomson.

Candidates must be Matriculated Students commencing their First Winter Session, and must intimate their intention to compete to Messrs Traquair, Dickson, & Maclaren, W.S., 11 Hill Street, Edinburgh, and also to the Clerk of the Senatus, on or before 22nd September. Candidates of the name of Thomson or Traquair, or natives of the town or county of Dumfries, or of the city of Edinburgh, are preferred. The Examination is in Latin and Moral Philosophy, and is the same as the October Examinations in those subjects for M.A. See CALENDAR 1879-80, p. 345. Open Sept. 1914.

1911, ROBERT THOMSON.

HARRY DALGETY BURSARIES.

Founded in 1912 by the Misses Dalgety, and Mrs Isabella Jamieson Dalgety or Wilson, all of Edinburgh. Four Bursaries: each £50 a year, for 2 years. Patrons, the Dalgety Trustees.

Two Bursaries will be offered for competition annually in July to Matriculated Students of any Scotch University who have completed attendance on the Classes of Scots Law and Conveyancing in a Scotch University. The Bursaries will be awarded to the Candidates who show the greatest proficiency in and knowledge of Scots Law and Conveyancing, and will be tenable in the Law Faculty of the University of Edinburgh for two academic years, as from 1st October following, subject to the following conditions:—(1) Candidates must satisfy the Trustees that they require

and deserve pecuniary assistance in the prosecution of their studies in Law. (2) Qualified Candidates will be examined in Scots Law (Civil and Criminal) and Conveyancing, in July, in Edinburgh, at a time and place to be afterwards announced. (3) Each Bursary is tenable for two consecutive years, during which the Bursar is required to attend Four Full Courses of Lectures (or an equivalent number of Half-Courses), exclusive of Scots Law and Conveyancing, in the Law Faculty of the University of Edinburgh. If any Bursar has previously attended more than One such Full Course (exclusive of Scots Law and Conveyancing), he shall hold his Bursary for one year only, on condition that he attend Two Full Courses or their equivalent. (4) These Bursaries are not tenable along with any other Fellowship, Scholarship, or Bursary connected with the Faculty of Law in the University of Edinburgh. See Deed of Foundation, p. 795 of CALENDAR for 1914-15.

Intending Candidates are requested to lodge (not later than 29th May) written application, with evidence of their eligibility, with the Agents to the Trustees—Messrs Dove, Lockhart, & Smart, S.S.C., 29 York Place, Edinburgh, who will supply forms of application and all further particulars.

1914, JOHN HADDEN, WILLIAM S. BRUCE.

The following ARTS BURSARIES are tenable in the Faculty of Law :—

Allan.	Glenbuck.	Maule.
Baxter of Balgavies.	Grant.	Sibbald.
Chrystie.	Jamieson.	Strang Steel.
Fraser (Thomas).	Maclaurin.	

III. Prizes.

FORENSIC PRIZE.

Of the value of £17, founded in 1858 by the Forensic Society, with the view of encouraging the study of Roman Law, is awarded annually, for the best Essay upon a subject connected with the study of the Civil Law. The subject of the Essay is announced by the Professor early in the session. It can be competed for only by Students of the Civil Law Class during the preceding year.

1914, E. C. B. KIRSOPP and R. S. LINDSAY, equal.

MUIRHEAD PRIZE.

Of about £19, 15s. annually, is awarded to the Student who gains the first place in the Class of Civil Law, as determined by the results of the periodical examinations during both the Winter and Summer Sessions.

1914, J. C. GRIERSON.

GRAY PRIZES.

(See under Faculty of Arts.)

GLADSTONE MEMORIAL PRIZE.

(See under Faculty of Arts.)

LORD RECTOR'S PRIZE.

(See under Faculty of Arts.)

HARRY DALGETY PRIZES.

Four Prizes, founded in 1912 by the Misses Dalgety and Mrs Isabella Jamieson Dalgety or Wilson, of the value of £20 each, will annually be awarded, after competitive examination, at the close of the Session, for excellence in the study of legal subjects to be selected by the Trustees, of which due notice will be given. Candidates for Prizes in any of the selected subjects must have attended the Course of Lectures on that subject in the University of Edinburgh for One Session only, and that within a period of three years prior to the date of the competition. Candidates may compete for all or any of the Prizes. A Student who holds or has held one of the Harry Dalgety Bursaries is not eligible for these Prizes. See Deed of Foundation, p. 795 of CALENDAR for 1914-15.

In 1915 four or five Prizes will be awarded, the subjects being intimated in October.

1914, *Civil Law*—CHARLES MACKINTOSH } equal.
WM. J. HENDERSON }

Private International Law—EDGAR C. B. KIRSOPP.

Mercantile Law—THOMAS M. COOPER.

Constitutional Law and History—JOHN YOUNIE.

IV. Funds for Special Study or Research.

THE WILLIAM DICKSON TRAVELLING FUND.

THE EARL OF MORAY BEQUEST FOR THE PROMOTION OF ORIGINAL RESEARCH.

CARNEGIE TRUST.

(For particulars of above see under **Faculty of Arts.**)

The attention of all Bursars in the Faculty of Law is particularly called to the following Regulation:—

Bursars connected with the Faculty of Law must annually attend and perform the work of at least one Class in the Faculty.

Each Scholar, Bursar, or Prizeman, when he applies to the Factor for a payment, must produce a Certificate, signed by the Dean, or the Professor to whose department the Foundation is attached, attesting his regular attendance on the proper Classes, or otherwise that he has fulfilled the conditions attached to the Foundation.

Certificates, in terms of this regulation, will be given to Bursars by the *Dean of the Faculty of Law* after the 13th November; also at the end of the Session in March. In applying to the Dean for the Certificate in November, Bursars must present to him their Class Cards for the Session, as evidence that they have enrolled in their Classes; and at the end of the Session they must present to him certificates from the Professors to the effect that they have attended with regularity and have performed the work of the Classes. Payments are made by the Factor for the University, Sir Henry Cook, W.S., 61 Castle Street, Edinburgh, on and after 14th November for the Martinmas payments, and on and after 18th May for the Whitsunday payments,—between 10 and 3 o'clock.

N.B.—Bursars and Scholars who desire to resign should at once announce this to the Factor. They must apply to the Factor for the instalments due to them within three months after they have become payable, otherwise they will be regarded as having resigned.

FACULTY OF MEDICINE

DEAN—PROF. HARVEY LITTLEJOHN, M.A., M.B., B.Sc.

PROGRAMME OF CLASSES

WINTER SESSION, 1914-1915.

The Classes in the Faculty will be opened as follows, and will meet daily (Saturdays excepted), unless otherwise stated :—

Three months' course is indicated by a *

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees. See also p. 503.	See also page
Chemistry	6 Oct., 12 noon	{ Prof. Walker and Lecturers	£4	507
Chemistry, Practical ¹	12 Oct., 9 a.m.		3	507
Physics (<i>Monday, Tuesday, and Thursday</i>)	6 Oct., 1 p.m.	{ C. G. Knott, D.Sc.	3	507
* Zoology	6 Oct., 12 noon		4	508
* Zoology, Practical	5 Jan., 12 noon	{ Prof. Ewart	2	508
* Botany, Tutorial (<i>twice weekly</i>)	6 Oct., 2.30 p.m.		2 ²³	
Anatomy	6 Oct., 11 a.m.	{ Prof. Robinson, Lecturers, and Assistants	4	510
Anatomy, Practical	1 Oct., <i>daily</i>		3	510
Anatomy, Revision Class	September.	{ Prof. Sir Edward A. Schäfer, Lecturers, and Assistants	1	511
Regional Anatomy (Anatomical Demonstrations)	7 Oct., 9 a.m.		2	512
Physiology	6 Oct., 10 a.m.		4	
Demonstrations on Wednesdays (12 to 1).				
Physiology, Practical				
* Experimental ¹ 6	6 Oct., 11 a.m.	{	2	513
* Chemical ¹	5 Jan., 11 a.m.		1	513
Physiology (Adv. Pract. Experi., and Chem.)			3	514

and Morbid Anatomy) ⁸	5 Oct., 3 p.m.	Ritchie, Lecturers, and Assistants	3 3	516
Pathology, Practical	6 Oct., 11 a.m.	Prof. Sir Thomas R. Fraser and Lecturer	4 4	517
Materia Medica	6 Oct., 2 p.m.	Prof. Hunter Stewart	3 3	518
*Materia Medica, Practical, including Pharmacy (.	5 Jan., 9 a.m.	Prof. Sir J. Halliday Croom	4 4	519
*Public Health and Sanitary Science—Advanced	8 Jan., 3 p.m.	A. H. Freeland Barbour, M.D.	see p. 83	520
Public Health Laboratory	7 Oct., <i>daily</i>	Prof. Alexis Thomson	4 4	521
Midwifery	6 Oct., 10 a.m.	Jas. M. Graham, M.B.	1 1	522
Gynecology ⁹	6 Oct., 10 a.m.	Prof. Wyllie	4 4	523
Surgery	6 Oct., 10 a.m.	Prof. Caird and Thomson, C. W. Cathcart, M.B., J. W. B. Hodsdon, M.D., David Wallace, M.B., Alex. Miles, M.D., and Assist. Surgeons	see p. 503	524
Surgical Pathology (<i>twice weekly</i>)	11 Jan., 2 p.m.	Prof. Russell, Sir R. W. Philip, M.D., and Drs Gulland, Graham Brown, and Boyd, and Assist. Physicians	see p. 503	525
Medicine	6 Oct., 9 a.m.	G. M. Robertson, M.D.	2 2	526
Clinical Surgery, ^{8 10} Royal Infirmary (<i>daily</i>)	8 Oct., 12 noon	(A. H. F. Barbour, M.D., and N. T. Brewis, M.B.	2 2	527
Clinical Medicine, ^{8 10} Royal Infirmary (<i>daily</i>)	6 Oct., 12 noon	John Thomson, M.D., and Staff of the Hospital	2 2 ¹¹	528
Mental Diseases, with Clinical Instruction at Royal Mental Hospital (<i>twice weekly</i>)	6 Jan., 3 p.m.			
Clinical Gynecology	6 Oct., 10 a.m.			
*Diseases of Children—Royal Hospital for Sick Children ⁸	7 Oct., 11 a.m.			

¹ Class meets in sections, at various hours.
² Besides charge of 10s. for Laboratory Expenses.
³ Garden Fee, 5s.
⁴ Three months' course, £2, 2s. ⁵ When taken along with 'Practical Anatomy, £1, 1s. Fee for three months' course, £1, 1s.
⁶ One division meets on Wednesdays at 2, instead of 11.
⁷ Besides small charges for materials (Experimental, 5s.; Chemical, 2s. 6d.).
⁸ Only open to Students holding the Hospital Ticket (see page 505).
⁹ Twenty Lectures—part of the course of Midwifery, and free to Members of that Class.
¹⁰ May be taken in courses of three months.
¹¹ Five Shillings Entrance-fee for Non-matriculated Students (see page 35).

WINTER SESSION—continued.

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees. See also p. 503.	See also page
*Diseases of the Eye ¹ (<i>thrice weekly</i>) . . .	6 Oct., 11 a.m.	{ W. G. Sym, M.D. . . }	2 2	528
*Diseases of the Larynx, Ear, and Nose ¹ (<i>Monday and Thursday</i>) . . .	6 Jan., 11 a.m.	{ A. Logan Turner, M.D. . }	2 2	528
*Diseases of the Skin ¹ (<i>thrice weekly</i>) . . .	7 Jan., 11 a.m.	{ Norman Walker, M.D. . }	2 2	529
*Diseases of the Skin ¹ (<i>thrice weekly</i>) . . .	7 Oct., 11 a.m.	{ Frederick Gardiner, M.D. . }	2 2	529
Advanced Bacteriology . . .	6 Oct., 4 p.m.	Prof. Ritchie and Assistants .	3 3 ²	517
*Diseases of Tropical Climates . . .	6 Oct., 2 p.m.	Major D. G. Marshall, I.M.S.	2 2 ²	530
*Medical Entomology and Protozoology . . .	21 Oct., 9-11 a.m.	J. H. Ashworth, D.Sc.	2 2 ³	532
*Tropical Hygiene (<i>Monday and Wednesday</i>) .	7 Oct., 3 p.m.	{ Prof. Hunter Stewart and J.B. } { Young, M.B., D.Sc. (P.H.) }	3 3	531
*Vertebrate Morphology (with Laboratory Work) . . .	6 Jan., 12 noon.	{ John Beard, D.Sc. . . }	3 3 ⁴	313
Comparative Embryology ⁵ . . .	6 Oct., 1 p.m.	{ Harold J. Stiles, M.B., C.M. }	3 3 ²	312
*Applied Anatomy (Medical and Surgical) (<i>Monday, Wednesday, and Friday</i>) . . .	7 Oct., 5 p.m.	{ Alex. James, M.D. . . }	1 1	511
*Infectious Fevers . . .	7 Oct., 4 p.m.	{ Claude B. Ker, M.D. . }	1 1 ⁶	534
*History of Medicine . . .	6 Jan. 4 p.m.	{ J. D. Comrie, M.A., B.Sc., M.D. }	... ⁷	529
*Practical Anaesthetics . . .	12 Oct., 4 p.m.	{ Demonstrator—	... ⁸	
*Neurology . . .	7 Oct. & 14 Jan.	{ D. C. A. M'Allum, M.B. . }	... ⁹	530
*Physical Methods in the Treatment of Disease	6 Jan., 4 p.m.	{ J. J. Graham Brown, M.D. . }	... ¹⁰	530
	7 Oct., 4 p.m.	{ Harry Rainy, M.A., M.D. . }	...	530

Botany	20 Apr., 8 a.m.	{ Prof. Bayley Balfour . . . }	4 4 ¹¹	509
Practical Botany ¹²	20 Apr., 9 a.m.	{ . . . }	2 2	509
(Field Demonstrations on <i>Saturdays</i> .)				
Zoology	20 Apr., 12 noon	{ Prof. Ewart . . . }	4 4	508
Zoology (Practical) ¹²	20 Apr., 10-12 noon	{ . . . }	2 2 ¹⁴	508
Natural History Laboratory	20 Apr.	{ Prof. Walker and Lecturers . . }	6 6	509
Chemistry (Practical)	20 Apr.	{ C. G. Kott, D.Sc. . . }	3 3	507
Physics	20 Apr., 1 p.m.	{ . . . }	3 3	507
Practical Anatomy (<i>daily</i>)	20 Apr.	{ Prof. Robinson and Assistants {	2 2 ¹³	511
Regional Anatomy (Anat. Demonstrations)	Apr., 10 a.m.	{ . . . }	2 2 ¹⁵	513
Practical Physiology (Histology) ¹⁴	20 Apr., 8-10 a.m. and 11-1 p.m.	{ Prof. Sir Edward A. Schäfer and Assistants . . . }	3 3	516
Pathology (Practical)	20 Apr., 8-10 a.m.	{ Prof. Lorrain Smith and Assistants . . . }	3 3	517
Pathology (Morbid Anatomy)	Apr., 4 p.m.	{ Prof. Ritchie and Assistants . . }	3 3	518
Advanced Bacteriology	20 Apr., 8 a.m.	{ Prof. Sir Thomas R. Fraser and Assistants . . . }	3 3	519
Practical Materia Medica (includ. Pharmacy) {	20 Apr., 2 p.m.	{ Prof. Harvey Littlejohn . . }	4 4	520
Forensic Medicine	20 Apr., 10 a.m.	{ Prof. Hunter Stewart . . }	2 2	521
Public Health	20 Apr.	{ Prof. Alexis Thomson and Assistants . . . }	see p. 83	
Operative Surgery and Surgical Appliances	20 Apr., 8-9-45 a.m.	{ Prof. Sir J. Halliday Croom and A. H. F. Barbour, M.D. }	3 3	525
Obstetrical and Gynecological Operations (<i>on</i> <i>days to be arranged</i>)	20 Apr., 10 a.m.	{ . . . }	3 3	

1 Only open to Students holding the Hospital Ticket (see p. 505). 2 5s. Entrance-fee for Non-matriculated Students (see p. 35).

3 Fee for Officers of the Colonial Services, £2, 2s., including the Fee for Matriculation.

4 Besides charge of 10s. for Laboratory Expenses. 5 Tuesday, Thursday, and Friday, two hours each day.

6 Fee payable at the Health Office, 321 High Street.

7 Free to Matriculated Students. For others, a Class Fee of 15s., and a University Entrance-fee of 5s. (see p. 35).

8 Free to all University Students who have passed the Third Professional Examination, and have attended Medicine and Clinical

Medicine; and also to Registered Medical Practitioners, including Women. Fee for those who have attended the University Class

of Medicine, £1, 1s.; for others, £2, 2s., with Entrance Fee of 5s.

9 All Graduates in Medicine of the University, £1, 1s., with 5s. Entrance Fee (see p. 35); Registered Medical Practitioners,

£2, 2s., with 5s. Entrance Fee (see p. 10); Male Students who have passed the Third Professional, and attended Medicine and

Clinical Medicine, Free. 11 Besides Garden Fee of 5s.

12 Six months' course to December. When taken with Practical Anatomy, £1, 1s. Fee for three months' course, £1, 1s.

13 Besides a fee of 6s. 6d. for materials.

14 In two divisions.

SUMMER SESSION—continued.

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees. See also p. 503.	See also page
Clinical Surgery, ¹ Royal Infirmary (<i>daily</i>) .	22 Apr., 12 noon	{ Profs. Caird and Thomson, C. W. Cathcart, M.B., J. W. B. Hodsdon, M.D., David Wallace, M.B., Alex. Miles, M.D., and Assist. Surgeons Profs. Sir Thomas R. Fraser, Wyllie, and Russell, Sir R. W. Philip, M.D., Drs Gul- land, Graham Brown, and Boyd, and Assist. Physicians A. H. F. Barbour, M.D., and N. T. Brewis, M.B. }	see p. 503	522
Clinical Medicine, ¹ Royal Infirmary (<i>daily</i>) .	20 Apr., 12 noon	{ W. G. Sym, M.D. . . . { John Thomson, M.D., and Staff of the Hospital . }	see p. 503	524
Clinical Gynecology	10 a.m.	{ A. Logan Turner, M.D. . . . Norman Walker, M.D. . . . Frederick Gardiner, M.D. . . . Major D. G. Marshall, I.M.S. J. H. Ashworth, D.Sc. . . . Professor Ritchie and Assis- tants }	2 2	525
Diseases of the Eye, ¹ Royal Infirmary (<i>thrice</i> <i>weekly</i>)	21 Apr., 11 a.m.	{ John Thomson, M.D., and Staff of the Hospital . }	2 2	528
Diseases of Children—Royal Hospital for Sick Children ¹	20 Apr., 11 a.m.	{ A. Logan Turner, M.D. . . . Norman Walker, M.D. . . . Frederick Gardiner, M.D. . . . Major D. G. Marshall, I.M.S. J. H. Ashworth, D.Sc. . . . Professor Ritchie and Assis- tants }	2 2	527
Diseases of the Larynx, Ear, and Nose ¹ (<i>Monday and Thursday</i>)	22 Apr., 11 a.m.	{ A. Logan Turner, M.D. . . . Norman Walker, M.D. . . . Frederick Gardiner, M.D. . . . Major D. G. Marshall, I.M.S. J. H. Ashworth, D.Sc. . . . Professor Ritchie and Assis- tants }	2 2	528
Diseases of the Skin ¹ (<i>thrice weekly</i>)	21 Apr., 11 a.m.	{ A. Logan Turner, M.D. . . . Norman Walker, M.D. . . . Frederick Gardiner, M.D. . . . Major D. G. Marshall, I.M.S. J. H. Ashworth, D.Sc. . . . Professor Ritchie and Assis- tants }	2 2	529
Diseases of the Skin ¹ (<i>thrice weekly</i>)	22 Apr., 11 a.m.	{ A. Logan Turner, M.D. . . . Norman Walker, M.D. . . . Frederick Gardiner, M.D. . . . Major D. G. Marshall, I.M.S. J. H. Ashworth, D.Sc. . . . Professor Ritchie and Assis- tants }	2 2	529
Diseases of Tropical Climates	20 Apr., 2 p.m.	{ A. Logan Turner, M.D. . . . Norman Walker, M.D. . . . Frederick Gardiner, M.D. . . . Major D. G. Marshall, I.M.S. J. H. Ashworth, D.Sc. . . . Professor Ritchie and Assis- tants }	2 2 ²	530
Medical Entomology and Protozoology	20 Apr., 9-11 a.m.	{ A. Logan Turner, M.D. . . . Norman Walker, M.D. . . . Frederick Gardiner, M.D. . . . Major D. G. Marshall, I.M.S. J. H. Ashworth, D.Sc. . . . Professor Ritchie and Assis- tants }	2 2 ³	532
Advanced Bacteriology ⁴	20 Apr., 3 p.m.	{ A. Logan Turner, M.D. . . . Norman Walker, M.D. . . . Frederick Gardiner, M.D. . . . Major D. G. Marshall, I.M.S. J. H. Ashworth, D.Sc. . . . Professor Ritchie and Assis- tants }	3 3	517
Tropical Hygiene (<i>Monday and Wednesday</i>)	21 Apr., 3 p.m.	{ Prof. Hunter Stewart and J. B. Young, M.D., D.Sc. (P.H.) }	3 3	531

Experimental Pharmacology ⁴	20 Apr.	W. C. Sillar, M.D., B.Sc.	3	3	518
Invertebrate Zoology, with Laboratory Work	20 Apr., 2-4 p.m.	J. H. Ashworth, D.Sc.	3	3 ^b	509
Practical Anæsthetics.	21 Apr., 7 p.m.	<i>Demonstrator—</i> D. C. A. McAllum, M.B.	...	6	
Infectious Fevers	20 Apr.	Alex. James, M.D. Claude B. Ker, M.D.	1	17	534

¹ Only open to Students holding the Hospital Ticket (see p. 505).

² Five Shillings Entrance-fee for Non-matriculated Students (see page 35).

³ Fee for Officers of the Colonial Services, £2, 2s., including Fee for Matriculation.

⁴ Two hours a day, three times a week.

⁵ Besides charge of 10s. for Laboratory Expenses.

⁶ This Class is free to all University Students holding a Hospital Ticket.

⁷ Fee payable at the Health Office, 321 High Street.

FEES FOR SECOND AND SUBSEQUENT ATTENDANCES, ETC.

Second attendances on £4, 4s. Courses, £3, 3s.; on £3, 3s. Courses, £2, 2s.; subsequent attendances free. Second attendances on £2, 2s. Courses, no reduction; third or subsequent attendances, £1, 1s. Second or subsequent attendances on Class of Diseases of Children, £1, 1s. Perpetual ticket for initial payment for any Lecture Course in the Faculty (except Clinical Surgery and Clinical Medicine), £6, 6s. Practical Classes and Laboratories, no reduction. Clinical Surgery: Fee, £2, 2s. per term. Clinical Medicine: 1st term, £3, 13s. 6d.; subsequent terms, £2, 2s. No perpetual ticket is issued in these subjects.

CLASS SESSIONS.

There are Two Sessions in each year, viz. :—

I. The Winter Session, which opens on Tuesday, 6th October, and closes on Wednesday, 17th March.

The Classes will meet for the last time before the Christmas Vacation on Friday, 18th December 1914, and will reassemble on Tuesday, 5th January 1915.

II. The Summer Session, which opens on Tuesday, 20th April, and closes on Friday, 2nd July.

Graduation Ceremonials in Medicine, etc., will be held on Friday, 18th December 1914, and Thursday, 15th July 1915.

MATRICULATION, ENTRY FOR CLASSES, ETC.

Matriculation consists in paying annually an entrance fee to the University, and in inscribing the name in the Students' Album.

The Matriculation Fees are :—

For the Academic Year, 1st October to 1st October . . . £1 1 0

For the Summer Session only, 1st May to 1st October . . . 0 10 6

Note.—Candidates for Examination or for Graduation must pay the Matriculation fee of £1, 1s., unless previously matriculated for the whole year.

All Candidates for Degrees, not Students of the University, availing themselves of the permission to attend the Classes of Extra-Academical Teachers in Edinburgh, must conform to the Regulations, IX., 5, 6, p. 541.

University Entrance Fee, in lieu of Matriculation, for each of certain Courses *specified in the Programme of Classes*, when not taken for Graduation £0 5 0

Payment of the Entrance Fee does not entitle the student to a certificate of attendance, nor confer any other University privilege.

Students who do not intend to graduate in Medicine in this University may attend any of the Classes in the Faculty on payment of the Matriculation and Class Fees. Those who intend to graduate must pass the Preliminary Examination, before attendance on any Class will qualify for Graduation. Women are admitted to Graduation.

Students are required to take out their Matriculation and Class Tickets not later than fifteen days after the beginning of the Session.

All Students commencing their Studies must call to see the Dean, at the Faculty Office, University New Buildings, during the first fortnight of the Session.

REGISTRATION WITH GENERAL MEDICAL COUNCIL.

Immediately after entering on Medical study, students must register with one or other of the Registrars of the General Medical Council. The Registrar for Scotland is Mr James Robertson, 54 George Square, Edinburgh, from whom forms of Registration, and all information on the subject, may be obtained.

Candidates for Registration must produce evidence that they have attained 16 years of age, that they have passed a Preliminary Examination admitting to the University Course, and that they have entered upon Medical Study.

OPPORTUNITIES FOR HOSPITAL PRACTICE.

Royal Infirmary, Edinburgh.—900 beds. Perpetual Ticket, in one payment, £12; Annual Ticket, £6, 6s.; Six Months, £4, 4s.; Three Months, £2, 2s.; One Month, £1, 1s. Separate payments, amounting to £12, 12s., entitle to a Perpetual Ticket.

Royal Edinburgh Hospital for Sick Children.—120 beds, of which 50 are reserved for Surgical Cases. Hospital Ticket for one year, £1, 1s., entitling Student to attend the General Practice of the Hospital, including the Out-patient Department.

Edinburgh Royal Maternity and Simpson Memorial Hospital.—40 beds available for Clinical Instruction. The fee charged is:—For three months' course, consisting of Internal Clinical Instruction and 12 practical cases, £3, 3s. (See VIII., 12, p. 33).

City Hospital, Colinton Mains.—For Fevers and Infectious Diseases. Number of beds, 600. Fee for the course, £1, 1s.

Royal Mental Hospital, Morningside.—500 beds, available for Clinical Instruction to members of the Class of Mental Diseases. The fee for the course is £2, 2s.

Total number of beds available for the Clinical Instruction of Students of the University, 2160.

TUTORIAL CLASSES, ETC.

Tutorial Classes in Clinical Medicine are held in the Wards of the Royal Infirmary, by the Clinical Tutors, Charles M'Neil, M.D.; Lewis H. F. Thatcher, M.B., Ch.B.; W. D. D. Small, M.B., Ch.B.; A. Fergus Hewat, M.B., Ch.B.; A. Ninian Bruce, M.D.; A. G. Henderson, M.B., Ch.B.; H. L. Watson Wemyss, M.D., Ch.B.; with R. W. Johnstone, M.A., M.D., and James Young, M.D., for Diseases of Women; under the superintendence of the Clinical Professors and Senior Lecturers.

Tutorial Classes of Clinical Surgery and Surgical Pathology, in the Royal Infirmary, by F. E. Jardine, M.B., Ch.B.; A. Pirie Watson, M.A., M.B., Ch.M.; John M. Darling, M.B., Ch.B.; W. Q. Wood, M.B., Ch.B.; R. C. Alexander, M.B., Ch.B.; and F. D. Cairns, M.B., Ch.B.; under the superintendence of the Professor

and the Senior Lecturers. Opportunities are also given for the study of fresh specimens, illustrating surgical diseases and injuries.

Practical Anæsthetics.—A Course of Six Lectures is given by the University Demonstrator, D. C. A. M'Allum, M.B., C.M., three times a year, commencing in October, January, and April.

Tutorial Class in Midwifery and Gynecology, under the superintendence of the Professor, assisted by R. W. Johnstone, M.A., M.D.

Ophthalmology.—Practical Instruction in the use of the Ophthalmoscope, and in the detection of errors of refraction, is given to members of the Class of Diseases of the Eye, at the Eye Wards of the Royal Infirmary, by H. W. Boreham, M.B., Ch.B., under the Superintendence of the Lecturer.

Diseases of the Larynx, Ear, and Nose.—Clinical Instruction to the class is given by Dr A. Logan Turner in the Out-patient department, Royal Infirmary, on Tuesdays and Fridays, at 11 o'clock. Tutorial Instruction in the Practical Methods of examining patients, and in the use of instruments and appliances, is given by W. T. Gardiner, M.B., Ch.B., at suitable hours.

Diseases of the Skin.—Tutorial Instruction in the Practical Methods of examining patients, of using the microscope in the diagnosis of cutaneous affections, in the employment of instruments and the application of remedies, is given at suitable hours, under the superintendence of the Lecturers, Dr Norman Walker and Dr Frederick Gardiner.

Diseases of Children.—Clinical Instruction is given in the wards, Out-patient department, and Post-mortem room at the Royal Hospital for Sick Children.

The Royal Mental Hospital is open to members of the Class of Mental Diseases, for Practical Instruction, under the superintendence of the Physician-Superintendent.

COURSES OF INSTRUCTION IN THE FACULTY OF MEDICINE.

CHEMISTRY.

PROFESSOR WALKER and LECTURERS.

1. LECTURES, daily during the Winter Session, at 12 noon.—In the lectures the general laws of chemical action are explained and illustrated.

The chief non-metallic elements and their more important compounds are discussed in some detail. The metals and the different series of metallic salts are considered more generally, details being given in the case of the more important substances.

The principles upon which the classification of organic substances is based are explained, and the properties of the chief groups illustrated by means of examples selected as far as possible for their physiological and pharmacological interest.

For synopsis of other classes in Chemistry, and for Chemical Laboratory, see under FACULTY OF SCIENCE.

2. MEDICAL PRACTICAL CHEMISTRY.—The work of this Class consists in the study of the preparation and reactions of the commoner salts, etc., and of typical organic substances, together with simple volumetric determinations.

PHYSICS.

CARGILL G. KNOTT, D.Sc., *Lecturer.*

The subjects embraced in the Course of Physics are :—

1. Properties of Matter—including Statics and Kinetics of Solid, Liquid, and Gaseous Bodies, Inertia, Gravitation, Molecular Forces, etc.

2. Sound, and Wave-propagation in general, Intensity, Pitch, and Quality of Musical Sounds, Interference, etc.

3. Heat, its Nature, Effects, Measurement, Transference, and Transformations—Measurement of Temperature and of Absolute Temperature ; Efficiency.

4. Light and Radiant Energy, Laws of Reflection and Refraction ; Production of Images in Mirrors, Lenses, and Microscopes ; Conditions of Distinct Vision ; Interference, Dis-

persion, Diffraction, Double Refraction, Polarization ; Radiation and Absorption ; Fluorescence and Phosphorescence ; Heat Rays and Actinic Rays ; Theory of Exchanges ; Spectrum Analysis.

5. Electricity and Magnetism ; Capacity, Potential, Electromotive Force, Current, Resistance, Magnetic Field ; Ohm's and Joule's Laws ; Thermo-Electricity ; Electrolysis ; Induction of Currents ; Batteries, Galvanometers, Voltameters, Induction Coils, Dynamos ; Radioactivity, etc.

The Course is now arranged so as to include in the fifty meetings of the Class a certain number of meetings in which the students themselves perform important experimental measurements in the Laws of Gases, Specific Gravity, Specific Heat, Properties of Lenses, Electrical Resistance, Magnetic Field, and the like.

Books of reference : Knott's *Physics* ; Daniell's *Physics for Medical Students* ; Watson's *Physics*.

ZOOLOGY.

PROFESSOR EWART.

1. LECTURES ON ZOOLOGY.—*Summer Session*.—The Course will treat of the Principles of Biology as illustrated by the Life-History, Morphology, and Physiology of a series of Vertebrate and Invertebrate types. Special attention will also be directed to the structure and life-history of the more important human and animal parasites, and of the Insects and other Arthropoda which transmit disease. The rest of the Course will be devoted to the Elements of Embryology, Classification, and Geographical Distribution of Animals.

Winter Session.—An Elementary Course, qualifying for the First Professional, will be given by the Professor.

2. ELEMENTARY PRACTICAL ZOOLOGY.—*Winter and Summer Sessions*.—In these classes students have the opportunity of studying practically the more important types described in the lectures, namely :—Amœba, Paramœcium, Hydra, Hirudo, Arenicola, Helix, Nephrops, Raia, Gadus, Rana, and Columba.

3. ADVANCED COURSES IN ZOOLOGY AND COMPARATIVE ANATOMY.—These Courses are intended for students preparing for the Degree of B.Sc

(1) Dr J. H. Ashworth, University Lecturer in Invertebrate Zoology, will give a Course during the Summer Session, dealing with some portion of the Invertebrata.

(2) Dr J. Beard, University Lecturer on Comparative Embryology and on Vertebrate Zoology, will give Courses on these subjects during the Winter Session.

(For particulars of these classes, and of requirements for Final B.Sc. Examination, see FACULTY OF SCIENCE.)

RESEARCH WORK.—The Laboratories are also available during both Sessions for research. For Regulations, see pages 138 and 140.

Comparative Embryology.

Vertebrate Morphology.

J. BEARD, D.Sc.

For Synopses, see under FACULTY OF SCIENCE.

ELEMENTARY BOTANY.

PROFESSOR BALFOUR.

Summer Session.

1. LECTURES.—The Course is a general one—Organographical, Physiological, and Taxonomic. Lectures are given every Monday, Tuesday, Thursday, and Friday.

2. DEMONSTRATIONS.—On Wednesdays.

3. PRACTICAL CLASS.—In this Class opportunity is given for the examination of microscopic structure of plants, and for the study of life-histories of plants illustrating the lectures. It is conducted by the Professor and Assistants.

4. EXCURSIONS.—Excursions are made on Saturdays for the practical study of plants in the field.

The Royal Botanic Garden, with the Botanical Museum and Herbarium, are open daily for the examination of living as well as preserved specimens of plants.

ANATOMY.

PROFESSOR ROBINSON, with HAROLD J. STILES, M.B., C.M.,
E. B. JAMIESON, M.D., and * * * *Lecturers.*

W. Q. WOOD, M.B., Ch.B., H. A. COOKSON, M.A., Ch.B., W. B.
MEYER, M.B., Ch.B., W. MACKENZIE, M.B., Ch.B.,
C. BURNHAM, M.B., Ch.B., L. BEESLEY, F.R.C.S., F. E.
JARDINE, M.B., Ch.B., P. D. CAIRNS, M.B., Ch.B., J. A.
ANDREWS, M.B., Ch.B., *Assistants.*

Winter Courses.

1. LECTURES ON ANATOMY, at 11 A.M.—It is intended in this Course to bring before the student, in a systematic manner, the structure of the Human Body. The different systems and organs will be described, and their development and growth explained. The lectures are illustrated by recent dissections, by wet and dry preparations, by a large collection of Osteological specimens, and by drawings, diagrams, and lantern slides.

To assist the members of the Lecture Class Tutorial Demonstrations will be given during both the Autumn and Spring Terms. These are open without additional fee to the members of the Class.

All the members of this Class have access to a systematically arranged series of osteological specimens and of models. Written Examinations are held periodically during the Session.

2. PRACTICAL ANATOMY, under the superintendence of the Professor, aided by the Assistants. Examinations of both Junior and Senior Students on dissected parts and by means of written papers are conducted by the Professor and the Demonstrators. Tutorial Demonstrations will be given to Senior Students on special subjects.

Students may dissect either in the University New Buildings or in the Bristo Street Department.

This Course will commence on 1st October. The Dissecting-rooms are open from 9 A.M. to 5 P.M., and on Saturdays from 9 A.M. to noon. The Mackenzie Bursaries are awarded to members of this Class for proficiency in dissection.

Textbook.—Cunningham's *Manual of Practical Anatomy.*

Regional Anatomy (Anatomical Demonstrations).

In this Course, which is conducted in the Theatre, the structure of the human body is displayed and demonstrated topographically. The Course continues through all three terms of every annus medicus, and students may enter at any time.

The Course is adapted for students of the second and later years.

Class of Applied Anatomy.

(MEDICAL AND SURGICAL.)

HAROLD J. STILES, M.B., C.M., *Lecturer*, assisted by LEWIS BEESLEY, F.R.C.S.E.

This Course is conducted in the Theatre by Mr Stiles. It will consist of the following :—

1. Demonstrations of Surface Anatomy on the living subject.
2. Demonstrations of those points in Anatomy which have a special bearing on practical Medicine and Surgery. This part of the Course will be illustrated by dissections and also by lantern slides. The normal anatomy of the body as shown by X-rays will likewise be exhibited.

The entire Course will consist of not less than thirty demonstrations, and these will be given during January, February, and March.

*Summer Courses.***Practical Anatomy.**

PROFESSOR ROBINSON.

This Course, beginning on 20th April, is conducted in the same manner as in Winter. The Rooms are open from 9 A.M. to 5 P.M. ; on Saturdays from 9 A.M. to noon. Examinations are conducted on dissected parts by the Professor and his Assistants, and the joints, brain, and organs of sense will be specially demonstrated.

Regional Anatomy (Anatomical Demonstrations).

The Course of Demonstrations on Regional Anatomy continues through all three terms of every annus medicus, and students may enter at any time. The Topographical Anatomy of the human body is described and exhibited by recent dissections, and

by other specimens. The study of Surface Anatomy also forms an important part of the Course.

COURSES IN ANATOMY FOR DIPLOMA IN PSYCHIATRY.

PROFESSOR ARTHUR ROBINSON, and DEMONSTRATORS.

Ten Meetings of two hours each.

1. General Characters of Brain.
2. Convolutions and Sulci.
3. Cavities.
4. Commissures.
5. Grey Matter.
6. The More Important Tracts.
7. The Blood Supply.
8. The Membranes.
9. } Development, including Sympathetic System.
10. }

Candidates for this Diploma can take this Course at any time, by arrangement with the Professor.

PHYSIOLOGY.

PROFESSOR Sir E. A. SCHÄFER, with DRS CRAMER, PRINGLE, TAIT, NINIAN BRUCE, *Lecturers*, and Mr HORNE, M.A., B.Sc., *Assistant*.

Systematic Course.

Course of about 100 Lectures or Demonstrations, held in Winter.

The Courses in Physiology and Practical Physiology embrace the study of the minute Structure, Composition, and Functions of the Tissues and Organs of the Body.

Textbooks.—Schäfer's *Textbook of Microscopic Anatomy*; Quain's *Anatomy (Neurology)*; and any of the following:—Halliburton's *Physiology*, Howell's *Physiology*, Starling's *Physiology*, Stewart's *Physiology*.

Course of Practical Physiology.

This Course is divided into three sections—

EXPERIMENTAL PHYSIOLOGY.

Under the superintendence of DR JOHN TAIT, Lecturer.

The methods which are employed to investigate the functions of muscle, nerve, heart, respiration, sense-organs, etc., are studied, and the results are recorded by graphic methods.

This Course occupies the first half of the Winter Session

Classbook.—Schäfer's *Experimental Physiology*.

PRACTICAL CHEMICAL PHYSIOLOGY.

Under the superintendence of DR W. CRAMER, Lecturer.

For the study of the methods which are employed in the investigation of the Chemistry of Proteins, Fats, Lipoids, Carbohydrates, Blood, Milk, Bile, Digestion, and Urine (with special reference to clinical work).

This Course occupies the second half of the Winter Session.

Classbook.—Cramer's *Directions for Class work in Chemical Physiology*. Also the following Textbooks: Milroy's *Practical Physiological Chemistry*, or Plimmer's *Practical Physiological Chemistry*.

PRACTICAL HISTOLOGY.

Under the superintendence of DR H. PRINGLE, Lecturer.

The minute structure of the tissues and organs of the body is studied practically in this Course. Each student is provided with a microscope, and all reagents.

Classbook.—Schäfer's *Course of Practical Histology*. *Textbooks:* Schäfer's *Essentials of Histology* and *Textbook of Microscopic Anatomy*.

This Class is held in Summer.

Each meeting of the Class of Practical Physiology occupies two hours, but students may remain longer or may use the Laboratory at other times if they are unable to complete their work satisfactorily within the time allotted.

In all the Practical Classes, a small fee is charged to cover the cost of materials, note books, etc.

No certificate of satisfactory attendance is granted in any of the sections of Practical Physiology without the production of the records of work, and the Class certificates and medals are allotted according to the character of the work done in the Class.

Course of Advanced Practical Physiology.

PROFESSOR SCHAFER, with DRS CRAMER, PRINGLE,
TAIT, and NINIAN BRUCE.

See Synopsis under FACULTY OF SCIENCE.

Physiological Research.

The Laboratory of Physiology is open throughout the year for the prosecution of Research. Such work is carried on under special regulations, for which application must be made to the Professor.

PHYSIOLOGY OF THE NERVOUS SYSTEM.

PROFESSOR SIR E. A. SCHÄFER and LECTURERS.

Experimental Study of Nervous System.

Conducted by DR BRUCE.

Varieties of nerve-fibres and of stimuli. Effects produced by nerve stimulation. Propagation of nerve impulses. Excitability and conductivity of nerve. Electrical response of nerve. Tone of nerve and muscle. Fatigue. Functions of spinal cord and medulla oblongata. Reflex action. Functions of brain.

Histology of Nervous System.

Conducted by DR BRUCE.

Methods special to nervous system. Structure of nerve cells and fibres. Effects of section of nerve. Degeneration and regeneration. Development and growth. Structure of neuroglia. The spinal cord—Characters of regions—Cell-groups. Tracts of spinal cord—Methods of tracing (*a*) by myelination, (*b*) by degeneration after injury. Medulla oblongata and pons. Cerebellum. Mid-brain. Thalamus and hypothalamus. Corpus mamillare. Corpus striatum. Regions of cerebral cortex. Ganglia. Nerve endings.

Chemistry of Nervous System.*Conducted by DR CRAMER.*

Qualitative and Quantitative Methods. Products of decomposition. Cerebro-spinal fluid.

A small fee is charged in each Practical Course to cover the cost of materials.

PATHOLOGY.

PROFESSOR LORRAIN SMITH, with A. MURRAY DRENNAN, M.B. Ch.B., *Lecturer.*

D. MURRAY LYON, M.B., Ch.B., and W. R. LOGAN, M.D., *Assistants.*

RICHARD MUIR, *Demonstrator of Pathological Methods.*

* * * *Lecturer on Morbid Anatomy.*

BACTERIOLOGY.

PROFESSOR JAMES RITCHIE, with Assistants.

The Winter Course includes :—

A. General and Special Pathology.

B. The General Principles of Bacteriology and the Study of the Commoner Pathogenic Micro organisms and their Relation to the Processes of Disease.

While the Course is in progress, opportunities are afforded for practical work in connection with the lectures, and practical instruction is given in Morbid Histology and Applied Pathology : a Course of Practical Bacteriology is included.

A teaching collection of Specimens has been prepared and so arranged that the Students are able to study the effects of disease and follow out the complete series of pathological changes which are observed in the various organs of the body in individual cases. For each case there has been prepared a report giving full details of the Clinical History, Post-mortem Examination, and Microscopical Investigation of the Morbid-Tissues.

There is also a Course of Lecture Demonstrations, supplementary to the Lectures.

PRACTICAL MORBID ANATOMY AND APPLIED PATHOLOGY.

During each term, a course of instruction is given in Morbid Anatomy and Applied Pathology in the Pathological Department at the Royal Infirmary.

In this Course the Students have practical instruction in making autopsies, in the detailed investigation of the affected organs and tissues, and in drawing up reports.

Students are required to attend this Course for one term before appearing for the Professional Examination in Pathology.

They must have Hospital Tickets during this Course.

Practical Pathology.

This Class is held in the Summer Term and is divided into Senior and Junior sections. Each section meets for two hours three days a week.

The morning hours of meeting are from 8 to 10 A.M., and the afternoon hours from 2 to 4 P.M.

The Senior section completes the practical work in Morbid Histology begun in connection with the Winter Lectures. Subsequently a series of individual cases is studied and reports, with a description of the organs and tissues and a full discussion of the pathology of the case, are written and handed in for criticism.

The work of the Junior section is confined to Morbid Histology. (In the following winter the Junior section completes its programme of practical work.)

JUNIORS are those commencing the study of Pathology for the first time. SENIORS are those who have already attended either the Lectures or the Class of Practical Pathology.

Microscopes and Reagents are supplied.

A small charge is made for slides and cover slips.

Textbooks.— Pembrey and Ritchie, *General Pathology*; Shennan, *Post-Mortems and Morbid Anatomy*; Beattie and Dickson, *General and Special Pathology*; Adami and M'Crae, *A Textbook of Pathology*; Miller, *Practical Pathology*; Muir and Ritchie, *Manual of Bacteriology*, 6th ed.

Advanced Bacteriology.

PROFESSOR JAMES RITCHIE, with Assistants.

This Course is intended for Senior Students of Medicine ; for graduates and for those preparing for the Degree of B.Sc. in Veterinary Science, the Diploma in Tropical Medicine and Hygiene, and the Diploma in Psychiatry.

The Class meets for two hours on three days a week during the Autumn and Summer terms.

The Course is mainly practical. In its early part it includes the preparation of media, the study of the commoner types of pathogenic bacteria, and practice in elementary serological methods. Later the Class will be divided into groups according to the different requirements of the members.

Those preparing for a Veterinary Degree will undergo a course of Comparative Bacteriology ; those studying Tropical Medicine will devote special attention to the bacteria associated with diseases occurring in tropical countries ; while students of Psychiatry and those intending to prosecute original research will receive special instruction in advanced serological methods.

Textbooks.—Muir and Ritchie's *Manual of Bacteriology* ; Hewlett's *Manual of Bacteriology* ; Jordan's *General Bacteriology* ; Besson (translation by Hutchen's), *Practical Bacteriology, Microbiology, and Serum Therapy*.

MATERIA MEDICA.

PROFESSOR SIR THOMAS R. FRASER.

Materia Medica comprises the subjects of pharmacognosy, pharmacy, pharmacology and therapeutics, diet, remedial uses of electricity and galvanism, heat and cold, climate, etc. Instruction in Materia Medica is given in (A) a Course of 100 Lectures during the Winter Session, in (B) Class Demonstrations during the Winter Session, and in (C) Practical Classes during the Summer Session, and of equivalent duration during the Winter Session.

A.—LECTURES ON MATERIA MEDICA.—This Course includes the natural history, sensible and chemical properties, pharmaco-

logical actions, therapeutical uses, and modes of administering remedies, ordinarily so called. Such remedies consist of (a) inorganic substances; (b) chemical products; (c) vegetable substances; (d) animal substances.

B. -CLASS DEMONSTRATIONS.—During the Winter Session, Demonstrations illustrative of the Pharmacological effects of several of the most important medicinal substances will be given to sections of the Class.

C. -PRACTICAL CLASSES.—*Practical* instruction is given in the following subjects, which cannot satisfactorily be taught in lectures:—1. Pharmacy, or the processes for obtaining the pharmaceutical preparations of drugs. 2. Prescription-writing. 3. Dispensing, or the making up of medicines in forms suitable for administration in disease. 4. Physical, sensory, and chemical characters of the more important medicinal substances. 5. Incompatibility.

It is recommended that the Practical Class be attended and the examination be passed in Practical Materia Medica before the student becomes a member of the Materia Medica Class. Practical Classes are taught in the Summer Session daily, at such hours as are found most convenient. A Winter Class may also be formed in October and in January, provided a sufficient number of students present themselves.

Research Laboratories.

The above laboratories will be open daily for research on the pharmacological action and chemical composition of medicinal substances, under the superintendence of the Professor and his assistants. Application to be made to the Professor.

EXPERIMENTAL PHARMACOLOGY.

W. C. SILLAR, M.D., B.Sc., *Lecturer.*

This Course, having an important bearing on the use of remedies in disease, consists of (1) practical instruction in the methods employed in pharmacological research and (2) the experimental study of the pharmacological action of a number of typical medicinal substances.

The Course is intended for students who desire a practical knowledge of pharmacology, and who have attended the Class of *Materia Medica*.

Previous instruction in Advanced Practical Physiology is strongly recommended.

The Course will commence in April.

FORENSIC MEDICINE.

PROFESSOR HARVEY LITTLEJOHN.

This Course will embrace, so far as possible, the following subjects :—

Legal responsibilities and duties of medical men ; methods of judicial investigation ; procedure in Courts of Justice ; medical evidence—oral and documentary.

Death in its medico-legal relations ; certification of death ; the signs of death and post-mortem changes ; the medico-legal examination of the dead body.

Modes of death.

Sudden death : its causation and medico-legal importance.

Identity of the living and of the dead.

Death from violence and unnatural causes.

Suicide.

Death from wounds and the consideration of various questions connected with mechanical violence.

Death from asphyxia : drowning ; hanging ; strangulation ; suffocation, etc.

Death from burning ; firearms and explosives ; starvation ; extremes of temperature ; lightning and electric shock.

Medico-legal relations of pregnancy and delivery.

Criminal abortion.

Infanticide.

Criminal assaults on females ; rape.

The examination of blood and seminal stains.

Insanity in its medico-legal relations ; criminal responsibility ; lunacy certificates ; testamentary capacity.

Toxicology ; consideration of the general evidences of poisoning and of the poisons most frequently met with in practice, together with the symptoms and morbid appearances produced, the means of detection, and the treatment of poisoning.

These lectures will be supplemented by practical demonstrations embracing the examination of the dead body; museum specimens; blood and seminal stains; hair and fibres, and the tests for poisons.

Every facility will be afforded to those who wish to obtain practical insight into any branch of the subject or to undertake research work.

Textbooks.—Dixon Mann's *Forensic Medicine and Toxicology*; Glaister's *Medical Jurisprudence and Toxicology*.

PUBLIC HEALTH.

PROFESSOR HUNTER STEWART.

The Course consists of not less than forty Lectures and Demonstrations, and embraces the following:—

1. General consideration of pathogenic and non-pathogenic micro-organisms—Their nutrition—The effects of heat, light, and chemical substances—Toxins and anti-toxins—Immunity.

2. *Air, Climate and Soil.*—Variations in the chemical and bacteriological constituents and meteorological condition of the atmosphere as caused by seasonal and local conditions—Climate as determined by winds, temperature, moisture and altitude—Healthy and unhealthy climates—Sanatoria—Soil as affecting health.

3. *Water Supply.*—Sources—Filtration—Storage—Causes of contamination.

4. *Habitation as affecting Health.*—Site and exposure—The dwelling—Air-space—Ventilation—Sewage and refuse removal and disposal—Sanitary fittings.

5. *Foods.*—Milk—Animal foods—Cereal foods—Adulteration—Preserved foods—Food-poisoning.

6. Vital statistics, and notification of infectious diseases.

7. Causes of the occurrence and spread of the more commonly met with infective diseases—Means of prevention—Isolation hospitals—Disinfection of clothing, of rooms, and of emanations from the sick.

8. School hygiene.

9. Disposal of the dead,

Research Laboratories in the John Usher Institute of Public Health.—Several research rooms have been fitted up in the Institute for research in Bacteriology and Bacteriological Chemistry under the direction of the Professor, assisted by J. Buchanan Young, M.B., D.Sc. (Public Health). Application to be made to the Professor.

SURGERY.

PROFESSOR ALEXIS THOMSON.

Winter Session.

1. *Lectures.*—This Course of 100 Lectures and Demonstrations is devoted to a systematic consideration of the Principles and Practice of Surgery. Each Course is intended to embrace, as far as possible, a complete view of the present aspects of the Science and Practice of Surgery. During the Autumn Term (October to December), the General Principles of Surgery, during the Spring Term (January to March) Regional Surgery will be discussed.

A written examination is held at the end of each term, and at the end of the Session a practical examination is held on the work of the Tutorial Classes.

2. *Tutorial Instruction*, at hours convenient for the students includes—

- (a) *Practical Instruction* (on the living subject) in *Bandaging* and the *Treatment of Fractures and Dislocations*. This Class is divided into sections for Senior and Junior Students.

Summer Session.

This Session is devoted to the Practical Aspects of Surgery. Special attention is given to Surgical Anatomy and Operative Surgery. Oral examinations and instruction in the uses of Surgical Instruments, form a special part of the Course. Special demonstrations are also given on Surgical Anatomy.

The Surgical Laboratory for (1) Surgical Pathology and (2) Bacteriology, is open daily for original work during the Winter and Summer Sessions, under superintendence of the Professor, assisted by J. M. Graham, M.B., Ch.B., F.R.C.S.; A. Pirie Watson, M.A., M.B., Ch.M., F.R.C.S.; and by R. C. Alexander, M.A., M.B., F.R.C.S. Applications to be made to the Professor.

Textbooks.—Winter Session: *Practice of Surgery*, by Spencer and Gask; Da Costa's *Manual of Modern Surgery*; Thomson and Miles' *Manual of Surgery*, 4th edition. Summer Session: Binnie's *Operative Surgery*; Kocher's *Operative Surgery* (translated by H. J. Stiles); *Applied Anatomy, Medical, Surgical, and Operative*, by M'Lauchlan and Scot Skirving; Treves' *Surgical Applied Anatomy*; Rawling's *Landmarks and Surface Markings; Operative Surgery*, Thomson and Miles.

SURGICAL PATHOLOGY.

JAMES M. GRAHAM, M.B., *Lecturer.*

The Course will consist of a series of demonstrations on both general and regional Surgical Pathology.

The subject will be fully illustrated by naked-eye specimens from the Museum of the Surgery Department, and from the Anatomical Museum of the University. Microscopical slides will be shown by means of the Epidiascope.

X-ray photographs illustrating the morbid anatomy of surgical diseases will also be demonstrated.

The Course will consist of eighteen demonstrations, and these will be given in January, February, and March.

CLINICAL SURGERY.

PROFESSOR F. M. CAIRD,

and PROFESSOR ALEXIS THOMSON, C. W. CATHCART, M.B., C.M.,
J. W. B. HODSDON, M.D., DAVID WALLACE, C.M.G., M.B.,
ALEXANDER MILES, M.D., *Senior Lecturers.*

The subjects of the Course are the symptoms, diagnosis, pathology, and treatment of surgical diseases and injuries as met with in the living body. Courses are conducted during each of the three University terms.

Clinical lectures are delivered on Mondays and Thursdays at 12 o'clock. Ward Clinics are held on these days from 11 to 12, and on Wednesdays from 11 to 1. Junior and senior sections will be formed as far as possible. Operations are performed on Tuesdays, Fridays, and Saturdays, from 11 o'clock onwards.

Tutorial instruction is given by the Clinical Tutors attached to the Wards, on two days a week at 7 P.M., and by the House Surgeons, on other days at the evening visit (7-8).

Students act as Clerks in the Wards and assist in the Operating Theatre.

Nine months' attendance on lectures is required, and the first six months must be taken with the same teacher. Attendance at the Ward Clinics is compulsory, and forms part of the Course.

A certificate of having acted as Dresser or Clerk in the Wards for a period of six months is required for graduation.

Details as to hours of instruction and arrangement of Clinical work are posted at the entrance to the various Surgical Wards in the Royal Infirmary.

PRACTICE OF MEDICINE.

PROFESSOR WYLLIE.

The Course of Instruction comprises daily Lectures during the Winter Session on the ætiology, morbid anatomy, clinical history, diagnosis, prognosis, and treatment of—

I. General diseases.

II. The diseases of the different systems and organs of the body.

It is intended that each Course shall be, as far as possible a complete review of the present aspects of the Principles and Practice of Medicine

The Course is illustrated by specimens of morbid anatomy and by numerous drawings, diagrams, and charts from the Anatomical Museum, and from the Professor's private collection.

Tutorial Class.

Practical instruction in connection with the Course is given to the members of the Class by the Assistant.

Textbooks. — Osler's and Frederick Taylor's *Practice of Medicine*.

CLINICAL MEDICINE.

PROFESSORS SIR THOMAS R. FRASER, WYLLIE, and RUSSELL.
Senior Lecturers—Sir R. W. PHILIP, M.D.; G. LOVELL GULLAND, M.D.; J. J. GRAHAM BROWN, M.D.; and F. D. BOYD, M.D.

This Course is conducted jointly by Professors and Senior Lecturers, who are Physicians to the Royal Infirmary, with the assistance of the Lecturers, who are Assistant Physicians to the Royal Infirmary, and consists of Clinical Lectures, of Clinical teaching in the wards of the Royal Infirmary, and of instruction in chemical, microscopical, and other methods employed in the investigation of disease. Courses are conducted during each of the three University terms.

The Clinical Lectures are delivered by the Professors and Senior Lecturers twice a week in the two clinical medicine theatres, to senior and junior students separately.

Bedside instruction is given on at least three days a week to senior and junior students, with the assistance of the Lecturers.

A Tutor is attached to each physician, and gives tutorial instruction in practical methods to Students beginning Clinical Medicine.

Students are required to act for at least six months as Clinical Clerks in the wards.

The posts of Resident Physician and of Clinical Assistant under the several physicians, are open to young graduates, and provide extended opportunities of post-graduate education.

MIDWIFERY.

PROFESSOR SIR J. HALLIDAY CROOM.

The Course of Instruction comprises Lectures on—

1. Anatomy and Physiology of the Female Organs of Reproduction.
2. Physiology of Pregnancy.
3. Physiology of Parturition.
4. Physiology of the Puerperal State.
5. Pathology of Pregnancy.
6. Pathology of Parturition.
7. Pathology of the Puerperal State.

Tutorial Classes.

Tutorial classes are held for Practical Instruction in the use of Obstetric and Gynecological Instruments and Appliances.

Clinical Instruction.

Midwifery may be studied clinically in the Royal Maternity Hospital, of which the Professor is, *ex officio*, one of the Medical Officers, and where he attends during the first three months of the Winter Session, and conducts clinics daily, along with practical instruction in the conduct of labour.

Summer Session.

A Course of Instruction, conducted conjointly by the Professor of Midwifery and the Lecturer on Gynecology, in Advanced Obstetrics and Operative Gynecology, is given in the Summer Session.

Textbooks for reference. — Whitridge Williams', Edgar's; as textbooks, R. W. Johnstone's *Textbook of Midwifery*, and Berry Hart's *Guide to Midwifery*.

GYNECOLOGY.

A. H. F. BARBOUR, M.A., M.D., LL.D., *Lecturer on Gynecology.*

Twenty systematic lectures on the Diseases of Women will be delivered during the Winter Session, in connection with the University Class of Midwifery.

Textbooks. — Hart and Barbour's *Manual of Gynecology*; Barbour and Watson's *Gynecological Diagnosis and Pathology*; Berkeley and Bonney's *Gynecological Surgery*.

Clinical Gynecology.

Lecturers—A. H. F. BARBOUR, M.D., LL.D., and N. T. BREWIS, F.R.C.S., Gynecologists to the Royal Infirmary.

Courses of about five weeks' duration are held throughout the Winter and Summer Sessions by the Lecturers in Wards XXXV. and XXXVI. of the Royal Infirmary. Each Course consists of Clinical Instruction, including the major and minor gynecological operations as well as the critical exposition and discussion of cases.

Tutorial instruction is given by R. W. Johnstone, M.A., M.D., and James Young, M.D.

As only a limited number of Students can be admitted to each Course of Clinics, early application for admission must be made at the respective Wards.

MENTAL DISEASES.

GEORGE M. ROBERTSON, M.D., *Lecturer.*

This Course consists of—

1. Systematic Lectures in the University during the Spring Term, on the Classification, Symptoms, Causes, and Treatment of Mental Diseases.

2. Clinical instruction in the "West House" of the Royal Asylum, Morningside, and in the National Hospital for the Training of Imbecile Children, Larbert, in the chief forms of Mental Disease. Students have the opportunity of personally coming in contact with and examining the cases, so as to learn the modes of managing and treating patients labouring under Mental Disease, and they are exercised in the diagnosis of Insanity and the drawing up of certificates; the aim being to enable them to recognise its symptoms, to distinguish its varieties, to adopt suitable treatment, and to advise the relatives as to sending the patient to an asylum. There is a clinical field of 500 beds. This part of the Course extends through the Summer Session.

3. Pathological demonstrations, naked eye, lantern, and microscopic, in the University and at the Royal Asylum, Morningside, of the Morbid Anatomy of Insanity.

4. Instruction in regard to the medico-legal and social relations of Mental Disease, and on its bearings and significance in ordinary medical practice.

5. Case-taking.

There are Resident Physicianships and Unqualified Clinical Clerkships in the Royal Edinburgh Asylum in connection with the Class, and there is a well-equipped laboratory under a Bacteriologist for the prosecution of clinical researches by those holding these appointments.

Textbooks.—Clouston's *Clinical Lectures on Mental Diseases*; *Clinical Psychiatry*, by Defendorf and Kraepelin; Ford Robertson's *Textbook of Pathology, in relation to Mental Diseases*.

PSYCHIATRY LECTURES.

GEORGE M. ROBERTSON, M.D., *Lecturer*.

A.—The Ordinary Course consists of at least six Systematic Lectures and ten Clinical Demonstrations, and its object is a practical one, to describe the common varieties of insanity, to show typical examples of these, and to indicate their treatment and management, with a view to the requirements of general practice. The Certification of Insanity and its medico-legal relationships are also explained.

B.—The Special or Supplementary Course, consisting of at least nine Lectures, treats the whole subject in a more general way, and a few instructive forms in greater detail than the Ordinary Course. It likewise deals with research work and with current topics of interest in the journals devoted to mental disease. The following subjects will be lectured upon: 1. The History of the treatment of the insane and the evolution of the modern mental hospital; 2. the Etiology and Pathogeny of insanity, including heredity and degeneration; 3. the various Classifications of insanity; 4. the Symptomatology of insanity, including disorders of the senses, intellect, emotions, and volition; and 5. special consideration of the following forms of insanity: (*a*) Manic-Depressive Insanity; (*b*) Delirious (Toxic) Insanity; (*c*) General Paralysis of the Insane; (*d*) Dementia Præcox; (*e*) Epileptic States; and 6. the Therapeutics of Insanity.

CLINICAL INSTRUCTION ON THE DISEASES OF CHILDREN

(AT THE ROYAL HOSPITAL FOR SICK CHILDREN).

JOHN THOMSON, M.D., *Lecturer*, and the Staff of the Royal Hospital for Sick Children.

The Course consists of ten systematic lectures delivered at the commencement of the Winter Session in the University

New Buildings, and of clinical instruction on three days a week at the Royal Hospital for Sick Children.

Courses are held during each Term, and students attend in sections.

In addition to clinical instruction, demonstrations are given in the Pathological Department of the Hospital and in the Out-patient Department, where a large number of minor surgical operations are performed daily.

DISEASES OF THE EYE.

W. G. SYM, M.D., *Lecturer.*

Courses of Instruction are given in the Royal Infirmary three times a year, commencing in October, January, and April.

The Courses will consist of at least twelve systematic lectures, and of twelve or more clinical lectures, including operations.

In addition there will be meetings for individual clinical instruction, including Refraction and Ophthalmoscopy.

Textbooks.—Swanzy's *Handbook on Diseases of the Eye*; Sym's *Diseases and Injuries of the Eye*.

DISEASES OF THE LARYNX, EAR, AND NOSE.

A. LOGAN TURNER, M.D., *Lecturer.*

Courses of instruction, each consisting of not less than eighteen meetings, are given in the Royal Infirmary three times a year. The Courses commence in October, January, and April, and are, held on Mondays and Thursdays at 11 o'clock.

In the clinical lectures, patients are brought before the Class and their condition is examined and discussed, and, where possible operative treatment is carried out. Methods of examination, instruments and appliances used in diagnosis and treatment are demonstrated.

Arrangements will be made to enable students of the Class to attend the out-patient clinics at least one day during the week. Out-patient clinics are held on Tuesdays, Fridays, and Saturdays, at 11 o'clock A.M.

Tutorial instruction in the practical methods of examining patients, and in the use of instruments and appliances, is given by W. T. Gardiner, M.B., F.R.C.S.E., at suitable hours in connection with the lectures.

DISEASES OF THE SKIN.

NORMAN WALKER, M.D., C.M., and FREDERICK GARDINER, M.D., B.Sc., *Lecturers*.

Courses of Instruction are given during each Term in the Royal Infirmary, consisting of not less than twenty lectures, delivered on Wednesdays and Fridays at 11 A.M., by Dr Walker, and on Tuesdays and Thursdays at 11 A.M., by Dr Gardiner.

Clinical instruction is given to each section of these Classes on one other day of the week at 11 A.M.

Textbooks.—Dr Allan Jamieson's *Diseases of the Skin*, and Dr Norman Walker's *Introduction to Dermatology*.

HISTORY OF MEDICINE.

JOHN D. COMRIE, M.A., B.Sc., M.D., *Lecturer*.

This Course of lectures will deal with the History of Medical Knowledge and of the advances that have taken place in the practice of the healing art and in its related sciences.

The Course will consist of twenty lectures, which will be delivered in the Forensic Medicine Class Room, at 4 P.M. on Tuesdays and Fridays during the Winter Session. It will include lectures upon Ancient, Mediæval and Early Modern Medicine, with a consideration of extracts from the writings of the more important medical authors, and short accounts of the rise of the various medical schools.

The subject of an Essay for competition for the Wellcome Medals and Prizes is announced in October.

The Course is intended for senior matriculated students, to whom it is free. Others may attend on payment of a fee of 15s. and 5s. Entrance Fee.

NEUROLOGY.

J. J. GRAHAM BROWN, M.D., *Lecturer.*

The aim of this Course is to present to the student a view, as far as possible complete, of the field of Neurology, in its present state of development. The ætiology, pathology, symptoms, diagnosis, and treatment of the various nervous diseases met with in practice will be discussed and illustrated.

The Course will consist of from forty to fifty lectures, systematic or clinical, conducted during the first half of the Winter Session.

CLINICAL NEUROLOGY.

J. J. GRAHAM BROWN, M.D., *Lecturer.*

The aim of this Course is to discuss and to illustrate clinically certain typical varieties of nervous disease, especially such as are likely to be met with in association with mental disorders.

PHYSICAL METHODS IN THE TREATMENT OF DISEASE

HARRY RAINY, M.A., M.D., *Lecturer.*

The Course consists of twenty-five lectures and demonstrations, and includes the consideration of the following subjects:—Electrotherapy, Radiotherapy, Phototherapy, Massage and Medical Gymnastics, Hydrotherapy and Balneology, Climatic Therapeutics and Sanatorium Treatment.

The Subjects are considered both from the theoretical and the practical standpoint.

The Course is conducted during the Autumn Term.

DISEASES OF TROPICAL CLIMATES.

MAJOR D. G. MARSHALL, M.B., I.M.S., *Lecturer.*

The Course consists of from twenty-five to thirty lectures, and is held twice yearly, commencing October and April. It comprises:—

1. GENERAL INFECTIONS.—*Protozoal Diseases*.—1. Malarial and Blackwater Fever ; 2. Kala-Azar ; 3. Trypanosomiasis, and Sleeping Sickness ; 4. Relapsing Fever and Tick Fever ; 5. Yaws.
Bacterial Diseases. 1. Undulant Fever ; 2. Tropical Enteric Fever ; 3. Plague ; 4. Cholera ; 5. Leprosy.
Diseases of Undetermined Etiology.—1. Yellow Fever ; 2. Dengue ; 3. Beriberi ; 4. Pellagra ; 5. Spotted Fever of Rocky Mountains ; 6. Sprue ; 7. Hill Diarrhœa ; 8. Papataci Fever.
2. LOCAL INFECTIONS.—1. Liver Abscess ; 2. Dysentery.
3. CLIMATIC DISEASES.—Sunstroke and other Diseases due to Heat.
4. ENTOZOAL DISEASES.—(a) NEMATODES : 1. Filariasis ; 2. Ankylostomiasis ; 3. Guinea Worm ; (b) TREMATODES : 1. Schistosomiasis, including Bilharzial Disease, etc.
5. TROPICAL ULCERS AND SKIN DISEASES.—1. Oriental Sore ; 2. Mycetoma ; 3. Tinea Imbricata ; 4. Dhobi's Itch ; 5. Chigger.
6. Local and general effects caused by bites of snakes, leeches, insects, rats and other animals, wounds by poisoned arrows.

TROPICAL HYGIENE.

PROFESSOR HUNTER STEWART and J. BUCHANAN YOUNG,
M.B., D.Sc. (P.H).

The Course consists of twelve lectures and twenty two-hour periods of Practical Work in the Laboratory, and includes the following :—

Tropical and Sub-tropical Climates—How affected by Nature of Soil, Altitude, Proximity to the Sea, Rainfall, Presence or Absence of Vegetation, and Moist or Dry Winds—Practice in the Use of Meteorological Instruments.

Influence of Climate in Health and in Disease. Acclimatisation.

Personal Hygiene.—Diet, Clothing, Ablution, and Exercise.

General Characters of Clay, Sandy, and Alluvial Soils.—Determination of Water Capacity and Permeability of Soils.

Site and Construction of Dwellings—Selection and Preparation of sites for Dwellings, Hospitals, Camps, etc.—Suitability of Different Building Materials—Cubic Space—Light—Ventilation—Cooling of the Air.

Practical Examination of the Air of occupied Rooms.

Water Supply—Rain, Rivers, and Wells as Sources—Sand Filtration—Storage, Distribution, and Cooling—Use of Domestic and Camp Filters—Purification of Drinking Water—Chemical and Bacteriological Examination of Water.

Foods.—Milk—Farinaceous and Animal Foods—Beverages—Tinned and other preserved Foods—Food Poisoning.

Microscopical and Chemical Examination of the more important Articles of Diet.

Drainage and Disposal of Refuse—Purification of Sewage, and Prevention of Pollution of Rivers—General Sanitation of Native Quarters, Camps, Factories, Plantations, Pilgrim and Coolie Ships, etc.

Destruction of Disease-carrying Animals (including Insects) in Houses, Ships, etc.

Disinfection of Ships, Dwellings, Clothing, and of Discharges from the Sick, etc.—Practice in the Preparation and Use of Disinfecting Solutions, and in the testing of their germicidal power.

Sanitary Administration of General and Infectious Diseases Hospitals.

MEDICAL ENTOMOLOGY AND PROTOZOOLOGY.

J. H. ASHWORTH, D.Sc., *Lecturer*.

This Course will consist of about thirty-two meetings of two hours each; and is held twice a year, viz., in the Autumn and Summer Terms (if necessary).

Lectures and Demonstrations will be given on:—

The Diptera (general survey of the Order). The Life History, Anatomy, and Habits of Culicidæ, especially of *Culex*, *Stegomyia*, and *Anopheles*. The Classification of Culicidæ. The Characters, Life History, Anatomy, and Habits of the Tsetse-flies (*Glossina*), and of other Blood-sucking Flies, e.g., *Culicoides*, *Phlebotomus*, *Simulium*, Tabanidæ, *Stomoxys*, *Hæmatobia*, *Lyperosia*, Pupipara, etc. The Congo Floor-maggot.

Myiasis. The House-fly, its Life History and Habits. The Classification of Diptera. Siphonaptera. Rhynchota. Anopleura. Mallophaga. The Characters, Life History and Anatomy of Ticks, especially of *Ixodes* and *Ornithodoros*. The Classification of Ticks. Harvest Mites. Pentastomida. The Poison Apparatus of Snakes and other Venomous Animals, *e.g.*, Centipedes, Scorpions, etc.

PROTOZOOLOGY.—SARCODINA. A general account of *Amæba*, *Entamæba coli*, *histolytica* (*tetragena*). CILIATA. A general account of *Paramecium*. *Balantidium*, *Nyctotherus*. FLAGELLATA. A general account of some free living Flagellate, *e.g.*, *Euglena*. *Trichomonas*, *Macrostoma*, *Lambliæ*, *Cercomonas*. Trypanosomes. *Trypanosoma gambiense*, *rhodesiense*, *cruzi*. *Crithidia*, *Leptomonas*, *Trypanoplasma*. *Leishmania donovani*, *tropica*, *infantum*. SPOROZOA. A general account of *Monocystis*. A general account of *Coccidium* with special reference to the sexual cycle. Malarial parasites. Halteridia. Hæmogregarines. *Babesia* (*Piroplasma*). Myxosporidia. Sarcosporidia. Haplosporidia, *Rhinosporidium*. *Spirochæta*. *Treponema*. *Histoplasma*. Chlamydozoa.

In the Laboratory, members of the Class will study examples of the principal divisions of the Protozoa, will make dissections and other preparations of various insects and ticks, and of some venomous snake, and will examine a series of museum preparations and microscopic slides illustrating the life history and the anatomical and systematic characters of insects and ticks.

PSYCHOLOGY.

W. G. SMITH, M.A., Ph.D., *Lecturer*.

This Course consists of Lectures and Laboratory Work, and will deal with the following among other subjects :—

I. Outline of the general principles and methods of Mental Science.

The general characters of mental experience. The fundamental forms of mental process. Mental development. Sub-conscious and unconscious states of mind. The relation between normal and abnormal states. The normal personality ; alterations of personality. The mental condition in hysteria.

Introspection and psychological analysis. The function of experimental procedure in mental science: its relation to physiological methods. The application of experimental methods to the study of abnormal processes. The employment of statistical methods. Applied Psychology. The methods and psychological relations of Eugenics.

II. Special study of the following subjects, reference being made to the connection between normal and morbid conditions. Attention will be given more particularly to experimental investigations.

Perception and ideation: Sensation, perception of space and time. Imagery, association of ideas, memory. Belief and related processes.

Attention: Its nature and laws; its function in mental development. The place of suggestion in mental life.

States of feeling: The simpler affective processes; emotion, sentiment, mood, temperament.

Active processes: Instinct and habit, impulse and volition; reaction processes; fatigue.

INFECTIOUS FEVERS.

ALEX. JAMES, M.D., and CLAUDE B. KER, M.D., *Lecturers.*

The Course consists of twelve Clinics at the Edinburgh City Hospital, the students being divided into sections, each section attending once weekly throughout the Session. Courses are held during each term.

Attention is paid chiefly to diagnosis and management. It is usually possible to give adequate demonstrations of all the more common infectious diseases.

Textbook—Dr Ker's *Manual of Fevers.*

GRADUATION IN MEDICINE AND SURGERY.

Roman numerals indicate sections of Ordinance No. 12 of the University Court of the University of Edinburgh.

Degrees and Diplomas in Medicine and Surgery.

I. Four Degrees in Medicine and Surgery shall be conferred by the University of Edinburgh, namely—Bachelor of Medicine (M.B.), Bachelor of Surgery (Ch.B.), Doctor of Medicine (M.D.), and Master of Surgery (Ch.M.). The Degree of Bachelor of Surgery shall not be conferred on any person who does not at the same time obtain the Degree of Bachelor of Medicine, and the Degree of Bachelor of Medicine shall not be conferred on any person who does not at the same time obtain the Degree of Bachelor of Surgery.

[These Degrees admit to the Medical Register. They qualify for Practice throughout His Majesty's dominions, and for admission to the Naval, Military, and other Public Medical Services.]

II. Subject to Regulations to be made from time to time by the Senatus, with the approval of the University Court, the University may confer Diplomas in Special Branches of Medical and Surgical Practice on graduates in Medicine and Surgery of the University of Edinburgh, and also on other legally qualified medical practitioners who shall have pursued a prescribed course of study for the Diploma in the University.

[University Diplomas are granted in Tropical Medicine and Hygiene (D.T.M. and H.) and Psychiatry (Dipl. Psych.);¹ and a University Certificate is granted in Diseases of Tropical Climates. See page 560.]

Academical Year.

III. The academical year shall commence on the first day of October. Each academical year shall extend to not less than thirty teaching weeks, divided into three terms, each of about ten weeks' duration. Two such terms shall, for the purpose of reckoning the duration of Medical study, be deemed the equivalent of one winter session, and one such term shall be deemed the equivalent of one summer session. The days on which courses of instruction shall open and close in each term shall be determined by the Senatus, with the approval of the University Court.

Preliminary Examination.

IV., V., VI., VII.—See earlier Section, pages 105 to 112. .

¹ See pages 593 and 597.

Professional Education for the Degrees of Bachelor of Medicine and Bachelor of Surgery.

VIII. Candidates shall be admitted to the Degrees of Bachelor of Medicine and Bachelor of Surgery only after they have fulfilled the following conditions with reference to Medical study :—

1. The candidate must have pursued Medical study for not less than five years, by attending courses of instruction in the subjects of the curriculum during not less than fifteen terms.
2. During each of the twelve terms preceding the fifth or final year the candidate must have attended one or more of the courses of instruction in the subjects of the curriculum.
3. During the fifth or final year of his curriculum the candidate must have pursued clinical study for at least nine months, or three terms, at the Royal Infirmary of Edinburgh, or at one or more of such other Public Hospitals or Dispensaries, British or foreign, as may be recognised for the purpose by the University Court, after consultation with the Senatus.
4. The candidate must, during his curriculum, have attended a course or courses of instruction in each of the following subjects of study, extending over not less than the number of terms specified in each case, and including such class examinations as may be prescribed in connection with the several courses :—

(1) Chemistry (including Organic Chemistry)		2 terms.
(with Practical Chemistry)		1 term.
(2) Physics (with practical work)		1 term.
(3) { Botany (with practical work) } or { Biology		1 term.
{ Zoology (with practical work) } or { Practical Biology		1 term.
(4) Anatomy and Practical Anatomy ¹		5 terms.
(5) Physiology and Practical Physiology		3 terms.
(6) Pathology (including Bacteriology) and Practical Pathology		3 terms.
(7) Materia Medica, Pharmacology, and Therapeutics		2 terms.
(8) Forensic Medicine		1 term.
(9) Public Health		1 term.
(10) Midwifery and Diseases peculiar to Women and Infants		2 terms.
(11) Surgery		2 terms.
(12) Medicine		2 terms.

Provided always that—

(a) The Senatus, with the approval of the University Court, shall have power, after receiving through the Faculty of Medicine the opinion of the Board of Studies, to determine from time to time the number of meetings of which a course shall consist, the number of meetings of any course to be held in one term, the

¹ Certificates of attendance on Practical Anatomy must express, not only the number of months engaged in dissection, but the names of the parts dissected, and the degree of care with which the dissections have been made. Students are recommended not to appear for Examination in Anatomy, with a view to a Degree, until they have dissected the human body at least once.

cases in which two half-courses shall be deemed equivalent to a full course, and the cases in which the subjects of any course may be subdivided or combined for the purposes of study.

Under similar conditions the *Senatus* shall have power to withhold recognition from one or other of the alternative courses specified in the third group of subjects above mentioned.

(b) It shall be the duty of each of the Professors and Lecturers to submit to the Board of Studies annually before the end of the second term of the academical year a syllabus and a scheme specifying what proportion of his course or courses shall be devoted to lectures, practical work, examinations, and tutorial instruction respectively. The Board of Studies shall transmit the syllabuses and schemes to the Faculty of Medicine, who shall submit them to the *Senatus*, with such observations as they may think fit to make thereon. The *Senatus* shall thereafter transmit them, with such observations as it may think fit to make thereon, to the University Court for their approval.

(c) The *Senatus*, with the approval of the University Court, shall have power to determine that the course of instruction in any subject shall include practical work, to prescribe the order in which the several courses of instruction in the subjects of the curriculum shall be attended, and to limit the number of such courses that may be attended in any term.

(d) The *Senatus*, with the approval of the University Court, shall have power, by Regulations made from time to time, to increase the number of terms over which a course of instruction in any subject of study shall extend, or to introduce into the curriculum additional subjects of study, or to extend the duration of the curriculum beyond the period of fifteen terms. The University Court shall communicate to the General Council any such Regulations made by the *Senatus* relative to the introduction into the curriculum of additional subjects of study, or to the extension of the duration of the curriculum beyond the period of fifteen terms; and any representation made thereon by the General Council within two months from the date of communication shall be taken into consideration by the University Court before any such regulation is approved.

5. The candidate must have attended for at least three years, or nine terms, the Medical and Surgical Practice of the Royal Infirmary of Edinburgh, or of a General Hospital which accommodates not fewer than eighty patients, and possesses distinct staffs of Physicians and of Surgeons, and is recognised by the University Court, after consultation with the *Senatus*.
6. The candidate must have attended in the Royal Infirmary of Edinburgh, or in any other General Hospital defined and recognised as hereinbefore provided, a course or courses of instruction in Clinical Surgery¹ extending over not less than nine months, or

¹ Only open to students holding the Hospital Ticket. Certificates of attendance must be countersigned by the Treasurer of the Royal Infirmary. Attendance at these classes includes attendance at the Ward Cliniques as well as the Class Lectures.

three terms. These courses may be conducted by the Professor of Clinical Surgery, or by other Professors or Lecturers appointed for the purpose by the University Court, or by the Ordinary Surgeons of the Hospital, and shall consist of regular instruction at the bedside, or for such part of the time as the Senatus, with the approval of the University Court, may determine, in the Surgical Out-patient Department, together with Clinical Lectures or Demonstrations.

7. The candidate must have attended in the Royal Infirmary of Edinburgh, or in any other General Hospital defined and recognised as hereinbefore provided, a course or courses of instruction in Clinical Medicine¹ extending over not less than nine months, or three terms. These courses may be conducted by a Professor of Clinical Medicine, or by other Professors or Lecturers appointed for the purpose by the University Court, or by the Ordinary Physicians of the Hospital, and shall consist of regular instruction at the bedside, or for such part of the time as the Senatus, with the approval of the University Court, may determine, in the Medical Out-patient Department, together with Clinical Lectures or Demonstrations.

Note.—Students are required to attend a Tutorial Class of Clinical Medicine either previous to appointment as Clinical Clerks or during the first three months' tenure of Clerkships, and in either case they must obtain a *Certificate* that they have attended the Tutorial Class with regularity, and have acquired satisfactory proficiency in the work of the class.

Students shall not be permitted to act as Clinical Clerks after the termination of their first three months' clerkship unless they have obtained the above Certificate.

8. The candidate must have attended a course of instruction in Mental Diseases and in Ophthalmology of such duration, and so apportioned between lectures, demonstrations, and clinical instruction, as the Senatus, with the approval of the University Court, may from time to time prescribe; he must also have attended a course of practical instruction in Operative Surgery of such scope and duration as may from time to time be determined by the same authority.
9. The candidate must have attended a course of instruction in Practical Materia Medica, including Pharmacy, consisting of not less than twenty-five meetings, at a University or recognised Medical School, or have dispensed drugs for a period of three months in a Public Hospital or Dispensary, or in the establishment of any chemist and druggist, or pharmacist or pharmaceutical chemist of Great Britain, or any pharmaceutical chemist of Ireland, who is registered in the books of the Pharmaceutical Society of Great Britain, or of the Pharmaceutical Society of Ireland, respectively.
10. The candidate must, under such conditions as the Senatus, with the approval of the University Court, may from time to time

¹ Only open to students holding the Hospital Ticket. Certificates of attendance must be countersigned by the Treasurer of the Royal Infirmary. Attendance at these classes includes attendance at the Ward Cliniques as well as the Class Lectures.

prescribe, have attended for at least six months, or two terms, the out-patient practice of a Public Hospital or Dispensary, and have acted for at least six months, or two terms, as Clinical Clerk¹ in the Medical Department, for at least six months, or two terms, as Clinical Clerk or Dresser¹ in the Surgical Department, and for such time as the Senatus, with the approval of the University Court, may determine, as Dresser in the Surgical Out-patient Department of a recognised General Hospital.

11. The candidate must have received at a Public Hospital or Dispensary, to such an extent and under such conditions as the Senatus, with the approval of the University Court, may from time to time prescribe, instruction including practical instruction in all or any of the following subjects, or in such other special departments as may from time to time be determined, namely—post-mortem Examinations, Infectious Diseases, Gynecology, Diseases of Children, Diseases of the Ear, Nose, and Throat, and Diseases of the Skin.
12. The candidate must have conducted twenty cases of labour, under such conditions as the Senatus, with the approval of the University Court, may from time to time determine; or have attended for three months the practice of a Lying-in Hospital, or of the Maternity Department of a General Hospital or other Public Charitable Institution, and have conducted personally twelve, or such an additional number of cases of labour as the Senatus, with the approval of the University Court, may from time to time determine.

In accordance with the recommendations of the General Medical Council, adopted by the Senatus Academicus and the Royal Maternity Hospital and Associated Dispensaries, it is required that, before commencing the study of Practical Midwifery, every student shall have held the offices of Clinical Medical Clerk and Surgical Dresser, and have attended a course of lectures on Surgery and Midwifery. Further, it is required that every student who adopts the second alternative in the preceding paragraph shall, during one month, give regular daily attendance upon the indoor practice of the Royal Maternity Hospital, or other Lying-in Hospital recognised for the purpose, and have therein conducted cases of labour under the personal supervision of a Medical Officer of the Hospital, who shall, when satisfied of the student's competence, authorise him to conduct out-door cases under official Medical supervision. The attendance on out-door cases shall extend over a period of two months, under the superintendence of the Extern Obstetric Physicians of the Maternity Hospital, who are attached to the Dispensaries.²

¹ Candidates must be members of the Class of Clinical Surgery, or of Clinical Medicine, as the case may be.

² Dispensaries referred to: The Royal, the New Town, the Livingstone, the Western, and the Provident Dispensaries.

13. The candidate must have been properly instructed in Vaccination at a Public Vaccination Station, by a Public Vaccinator, authorised by a proper Government Authority to grant Certificates of Proficiency in Vaccination.¹
14. The candidate must have been properly instructed in the administration of Anæsthetics, under such conditions as the Senatus, with the approval of the University Court, may from time to time prescribe.
15. The Senatus, with the approval of the University Court, shall have power to prescribe the form of the certificate of attendance on any course of instruction, or on the practice of any Hospital or Dispensary, to be presented by the candidate: Provided always that no candidate shall be deemed to have attended a course of instruction for the purposes of graduation who does not present a certificate bearing not only that he has regularly attended the course, but also that he has duly performed the work thereof.

IX. With respect to the Places and Institutions at which Medical study may be pursued, the following Regulations shall have effect:—

1. Not less than two years, or six terms, of Medical study must be spent in attendance at the University of Edinburgh on courses of instruction in the subjects of the Curriculum.
2. Subject to the provisions of Section VIII., Sub-section 3, the remaining three years, or nine terms, of Medical study may be spent in attendance on courses of instruction in the subjects of the Curriculum at any University of the United Kingdom, or at such Indian, Colonial, or Foreign University, or at such College incorporated with or affiliated to a University, or at such Medical Schools, or under such Teachers as may be recognised for the purpose by the University Court, after consultation with the Senatus.
3. Of the subjects of study specified in Section VIII., Sub-section 4, not less than one-half the number must be studied at the University of Edinburgh, or at some other University of the United Kingdom, or at a recognised Indian, Colonial, or Foreign University, or at a recognised College incorporated with or affiliated to a University: Provided always that, for the purpose of reckoning the number of the said subjects studied at such University or College, any of these subjects may be included which has been studied by attendance on a prescribed course of instruction therein, or on a part of such course extending over not less than two terms.
4. Subject to the provision of Sub-section 3 immediately preceding, the

¹ The candidate must, when he enters for the Final Examination, produce a Certificate of instruction and examination in vaccination, of the standard required by the Local Government Board, from a Vaccine Department in an Hospital, Dispensary, or other public Institution recognised for the purpose by the Local Government Board. The recognised Vaccine Departments in Edinburgh are the Western Dispensary, 90 Fountainbridge; the Edinburgh Provident Dispensary, Marshall Street; the Livingstone Dispensary, 39 Cowgate; and the New Town Dispensary, 17 Thistle Street—*Vaccinator*, Dr J. B. Buist; and the Royal Public Dispensary, 21 West Richmond Street—*Vaccinator*, Dr W. G. Aitchison Robertson.

prescribed courses of instruction in any of the subjects of study specified in Section VIII., Sub-section 4, may be attended at one or more recognised Medical Schools, or under one or more recognised Teachers.

5. All candidates not matriculated students of the University, attending, for the purposes of graduation in the University, the courses of instruction of recognised Extra-Academical Teachers in Edinburgh, must, during each academic year in which such course or courses are attended, enrol their names in a book to be kept in the University for that purpose, paying a fee of the same amount as the matriculation fee paid by matriculated students of the University, and having, in respect of such payment, a right to the use of the Library of the University.
6. The fee for attendance, for the purposes of graduation, on the courses of instruction of recognised Extra-Academical Teachers in Edinburgh, shall be not less than the amount exigible for the corresponding courses in the University.
7. The University Court shall not recognise as qualifying for admission to examination in any of the subjects specified in Section VIII., Sub-section 4, the course of instruction of any Teacher who is at the time a Teacher of more than one of the said subjects, except in those cases where Professors in the University are at liberty to teach two subjects: Provided always that a Professor or other Teacher in any endowed public College or Institution, who by the terms of his appointment is required to teach more than one subject of Medical study therein, may be recognised under Sub-section 2 of this Section as a Teacher of any one of the subjects which he teaches.
8. A Teacher, attendance on whose course of instruction shall, before the date of the approval of this Ordinance by His Majesty in Council, have been recognised for the purposes of graduation in the University, shall not require to obtain a new recognition from the University Court; and attendance on the course of instruction of every such Teacher may continue to be recognised as heretofore.
9. It shall be in the power of the University Court, if they shall see cause, at any time to withdraw or suspend any recognition which they may have granted.
10. The University Court shall not grant or continue recognition to any Institutions or Teachers unless they shall be satisfied, after consultation with the Senatus, that their courses of instruction are equivalent to the courses prescribed for graduation in the University.

Professional Examination for the Degrees of Bachelor of Medicine and Bachelor of Surgery.

X. The Examination for the Degrees of Bachelor of Medicine and Bachelor of Surgery shall include the following subjects, arranged in the following divisions, namely:—*First*, Chemistry, Physics, Botany, and Zoology (or Biology); *Second*, Anatomy and Physiology; *Third*, Pathology including Bacteriology, and Materia Medica including Phar-

macology and Therapeutics; *Fourth*, Forensic Medicine, Public Health, Surgery, Clinical Surgery, Practice of Medicine, Clinical Medicine, and Midwifery and the Diseases peculiar to Women and Infants.

No candidate shall be admitted to examination in any subject until he has attended the prescribed course of instruction in that subject, and fulfilled the prescribed conditions with reference thereto.

The examination in each subject shall be conducted both orally and in writing; and in those subjects in which practical or clinical instruction is prescribed, and in which a practical or clinical examination may suitably be held, the examination shall be such as to test the practical or clinical acquirements of the candidates.

XI. The Senatus, with the approval of the University Court, shall have power to determine that a prescribed interval shall elapse between the time when a candidate passes the examinations in the subjects of one division and the time of his admission to examination in the subjects of a subsequent division, or that a candidate who has not passed the examinations in the subjects of one division shall be restricted as to his attendance on qualifying courses of instruction in any of the subjects of a subsequent division, or that under prescribed conditions a candidate may pass the examinations in the subjects of any division singly or together, or that the examinations in the subjects of any division shall be taken in a prescribed order.

The Senatus, with the approval of the University Court, shall have power, by Regulations made from time to time, to alter the number of the divisions specified in Section X., to introduce additional subjects into any division, or to determine that particular subjects or parts of subjects shall, for the purposes of examination, be subdivided or combined or transferred from one division to another: Provided always that the final division shall in all cases include practical and clinical examinations in Medicine, Surgery, and Midwifery, including Diseases peculiar to Women.

XII. The Senatus, with the approval of the University Court, shall have power, in the case of a candidate who at any other Scottish University has attended a qualifying course of instruction and passed the corresponding examination in any of the subjects comprised in the first division specified in Section X., to determine that such examination shall be accepted as equivalent in whole or in part to the corresponding examination of the University of Edinburgh: Provided always that in the judgment of the Senatus the course of instruction is equivalent to the course prescribed for graduation in the University of Edinburgh, and that the standard of the examination is satisfactory.

XIII. A candidate who has attended the prescribed course or courses of instruction in any of the subjects comprised in the first division may be admitted to examination therein, at such time and under such conditions as the Senatus, with the approval of the University Court, shall determine.

In the case of a candidate who has, at the University of Edinburgh, or at any University of the United Kingdom, or at any other University specially recognised for the purpose by the University Court, completed a course of instruction and passed an examination in Chemistry, Physics, Botany, Zoology, or in Biology (including therein Botany and Zoology), qualifying for a Degree in Science or in Arts, the Senatus shall have power to exempt him from passing the examination in the corresponding subject

or subjects comprised in the first division: Provided always that in the judgment of the Senatus the course of instruction and the standard of examination are in each case satisfactory, and provided also that he has passed or obtained exemption from the Preliminary or Entrance Examination.

Note.—A student commencing in Summer who fails to pass in one subject, either Botany or Zoology, before commencing his first Winter, shall not be permitted to appear again for examination in these subjects until the following Summer.

A student who, at the commencement of the Second Winter, has not passed in at least two subjects of the first division shall not be permitted to attend a qualifying course in Physiology or other qualifying course pertaining to a subsequent professional examination (except Practical Anatomy) during that Winter Session.

Under no circumstances may a student take out qualifying courses in the subjects of the third and final divisions until he has passed in all the subjects of the first division.

XIV. A candidate who has passed the examinations in the subjects comprised in the first division may be admitted to examination in the subjects of the second division after the end of the sixth term of Medical study, or such other term as the Senatus, with the approval of the University Court, shall determine.

Note.—A student who, at the commencement of his Third Winter, has not passed in either of the subjects of the second division shall be permitted to attend only one qualifying class, viz., Pathology or Materia Medica, during that Winter Session. Students who take Materia Medica shall also be allowed to attend Practical Materia Medica.

A student who, at the commencement of the Third Winter, has passed in only one subject of the second division shall not be permitted to attend a qualifying course in Medicine or other qualifying course pertaining to the Final Examination during that Winter Session.

XV. A candidate who has passed the examinations in the subjects comprised in the second division may be admitted to examination in the subjects of the third division after the end of the ninth term of Medical study, or such other term as the Senatus, with the approval of the University Court, shall determine.

XVI. A candidate who has passed the examinations in the subjects comprised in the third division may be admitted to examination in the subjects of the fourth or final division at such time and under such conditions as the Senatus, with the approval of the University Court, shall determine: Provided always that no candidate shall be admitted to the final examinations in Medicine, Surgery, and Midwifery prior to the fifteenth term of Medical study.

Note.—Candidates shall not be admitted to examination in the subjects of Forensic Medicine and Public Health of the final division prior to the twelfth term of medical study, and until they have attended qualifying classes in the subjects of Medicine, Surgery, and Midwifery.

XVII. If any candidate at any of the examinations be found unqualified in a subject or subjects, he may not again be admitted to the examination

unless he has pursued such further study, for such time, and under such conditions, as the Faculty of Medicine may prescribe.¹

XVIII. If any candidate at any of the examinations be found to have passed in a subject or subjects with sufficient merit, he may be exempted from re-examination in such subject or subjects, although he may have been found unqualified in a subject or subjects included in the same examination.

XIX. Every candidate for graduation must deliver, on or before such day as the Senatus may from time to time determine,² to the Dean of the Faculty of Medicine, a declaration, in his own handwriting, that he has completed his twenty-first year, or that he will have completed it on or before the day of graduation.

XX. After the candidate has fulfilled the prescribed conditions and has satisfied the Examiners in the subjects of the fourth or final division of the Examination, the Dean of the Faculty of Medicine shall on behalf of the Faculty report the result to the Senatus, by whose authority the candidate shall be admitted, on such day as the Senatus may from time to time appoint, to the Degrees of Bachelor of Medicine and Bachelor of Surgery, on payment of the required fees.

XXI. Candidates for graduation shall produce evidence of their having conformed to the Regulations which were in force at the time they commenced their course of Medical study, except in so far as is provided in Section XXVII. hereof.

Professional Examination for Degree of Doctor of Medicine.³

XXII. 1. Subject to the conditions hereinafter specified, the Degree of Doctor of Medicine may be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Edinburgh, and is of the age of twenty-four years or upwards, and has produced a certificate showing that, after having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attending the Medical Wards of a Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval, Military, Colonial, or Public

¹ Satisfactory certificates that the candidate has complied with the requirements of the Faculty must be produced when candidates re-enter for examination. The fees paid to Extra-Academical teachers in Edinburgh for re-attendances must be of the same amount as those payable for the corresponding classes in the University, and the certificates of attendance must show the amounts of the fees paid.

² On or before the date for showing certificates, etc., for the Final Examination. See pages 562 and 563. This declaration is appended to the Curriculum Schedule for the Final Examination, and must be attested and signed before the Schedule is lodged.

³ Candidates, settled for a period of years in foreign parts, who have complied with all the Regulations for the Degree of M.D. or for the Degree of Ch.M., but who cannot appear personally to receive the Degree, may, on satisfying the Senatus to that effect, by production of sufficient official testimonials, have the Degree conferred on them *in absentia*.

Health Medical Services, or for at least two years in Practice other than Practice restricted to Surgery.

2. Each candidate for the Degree of Doctor of Medicine shall be required to pass an examination in Clinical Medicine and in such special department of Medical Science or Practice professed by the candidate as the Senatus, on the recommendation of the Faculty of Medicine, may approve; and he may be admitted to the examination at such time, not sooner than one year after he has received the Degrees of Bachelor of Medicine and Bachelor of Surgery, as the Senatus may appoint for the purpose¹: Provided always that in special circumstances, and if the Thesis presented by the candidate is of exceptional merit, the Senatus may, if it sees fit, on the recommendation of the Faculty of Medicine, exempt a candidate from the whole or part of such examination.

The examination in Clinical Medicine for each candidate consists of a written Report and Commentary, with any oral questions that may be considered desirable, upon at least three Medical cases. In the selection of the cases, special regard should be given to the opportunities they afford for testing the candidate, not only in the ordinary methods of clinical investigation, but also in the more advanced methods requiring practical knowledge in the applications of the ophthalmoscope and laryngoscope, in the chemical and microscopical examination of excreta, the quantitative determination and microscopic characters of the chief constituents of blood possessing clinical importance, the recording by instruments of the condition of the circulation, the applications of electricity, etc.: Provided always that one of the three cases on which a candidate shall be examined may be the case of a patient suffering from a Gynecological or Mental Disease, or Disease of Childhood, or other special department of medicine approved by the Senatus, if the candidate on entering his name for the examination declare a wish to this effect. So far as possible, the examination in these Departments will be on a standard equal to that of the examination on the Medical cases.

3. Each candidate for the Degree of Doctor of Medicine shall submit for the approval of the Faculty of Medicine a Thesis,² on any branch of knowledge comprised in the second, third, and fourth divisions of the examinations for the Degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a subject of special study, excepting subjects which are exclusively Surgical; and the Thesis, accompanied by a declaration signed by the candidate, that the work has been done and the Thesis composed by himself, shall be lodged with the Dean of the Faculty

¹ The Senatus has decided that graduates occupying positions as Resident Physicians and Surgeons in the Royal Infirmary shall not be admitted to the Examination during the period of their appointment as Residents. The Senatus also includes in this regulation Residents in the Sick Children's Hospital, City Fever Hospital, and Royal Mental Hospital, when cases in these special branches of medicine are selected as part of the examination.

² After graduation as M.D., candidates may borrow their Theses for a limited period, on obtaining permission from the Dean to do so, and on depositing £1.

of Medicine on or before a date to be fixed by the Senatus.¹ The Faculty may, if it sees fit, before approving the Thesis, require the candidate to present himself for oral or other examination on the subject-matter thereof.

4. A Bachelor of Medicine and Bachelor of Surgery, who produces to the Senatus satisfactory evidence of his intention of entering, within twelve months after obtaining such Degrees, on the practice of his profession in a British Possession or Colony, or in a foreign country, may, under such conditions as the Senatus may from time to time prescribe, be admitted to the examination in Clinical Medicine and in a special department of Medical Science or Practice prescribed in Sub-section 2 of this Section, at such time after he has received such Degrees as the Senatus may appoint for the purpose; but the Degree of Doctor of Medicine shall not be conferred on him unless he shall produce a certificate showing that, after having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attending the Medical Wards of a Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval, Military, Colonial, or Public Health Medical Services, or for at least two years in Practice other than Practice restricted to Surgery.

Professional Examination for Degree of Master of Surgery.²

XXIII. 1. Subject to the conditions hereinafter specified, the Degree of Master of Surgery may be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Edinburgh, and is of the age of twenty-four years or upwards, and has produced a certificate showing that, after having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attending the Surgical Wards of a Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval, Military, or Colonial Medical Services, or for at least two years in Practice other than Practice restricted to Medicine.

2. Each candidate for the Degree of Master of Surgery shall be required to pass an examination in the following subjects:—Surgical Anatomy and Pathology, Operations upon the dead body, and Clinical

¹ Candidates are required to write their Theses on faint lined paper, 11 in. by 8½ in., with margins 1½ in. at each side; or they may be typewritten. The Thesis is to be written, or typed, on one side of each leaf only; and the subject of the Thesis and name of the author should appear on the front of the outside cover, and, if the Thesis is of sufficient thickness, also along the back of the cover. It is strongly recommended, wherever the subject admits of its being done, that the Thesis should terminate with a summary embodying the conclusions arrived at by the author. The Thesis must be lodged on or before 1st October for the Winter Graduation, or 31st March for the Summer Graduation. There is no regulation as to length of Thesis. See also Regulations as to entering for examinations and lodging Theses, p. 563. For standard of Thesis see page 570, sentence beginning: "No Thesis will be approved," etc.

² See footnote 3, page 544.

Surgery, and such special departments of Surgery professed by the candidate as the Senatus, on the recommendation of the Faculty of Medicine, may approve; and he may be admitted to the examination at such time, not sooner than one year after he has received the Degrees of Bachelor of Medicine and Bachelor of Surgery, as the Senatus may appoint for the purpose.¹

The examination in Clinical Surgery for the Degree of Master of Surgery should for each candidate consist of a written Report and Commentary, with any oral questions that may be considered desirable, on at least three Surgical cases: Provided that one of the three Surgical cases on which a candidate shall be examined may be the case of a patient suffering from an Eye, Throat, Ear, or Gynecological Disease, or other special department of Surgery approved by the Senatus, if the candidate, on entering his name for the examination, declare a wish to this effect. So far as possible, the examination in these departments shall be on a standard equal to that of the examination on the Surgical cases. The candidates shall also be examined in Surgical Anatomy and Operations upon the dead body.

3. Each candidate for the Degree of Master of Surgery shall submit for the approval of the Faculty of Medicine a Thesis² on any branch of knowledge comprised in the second, third, or fourth divisions of the examination for the Degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a subject of special study, excepting subjects that are exclusively medical; and the Thesis, accompanied by a declaration signed by the candidate that the work has been done and the Thesis composed by himself, shall be lodged with the Dean of the Faculty of Medicine on or before a date to be fixed by the Senatus. The Faculty may, if it sees fit, before approving the Thesis, require the candidate to present himself for oral or other examination on the subject-matter thereof.
4. A Bachelor of Medicine and Bachelor of Surgery who produces to the Senatus satisfactory evidence of his intention of entering, within twelve months after obtaining such Degrees, on the practice of his profession in a British Possession or Colony, or in a foreign country, may, under such conditions as the Senatus may from time to time prescribe, be admitted to the examination in the subjects specified in Sub-section 2 of this Section, at such time after he has received such Degrees as the Senatus may appoint for the purpose; but the Degree of Master of Surgery shall not be conferred on him unless he shall produce a certificate showing that, after having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attending the Surgical Wards of a Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval, Military, or Colonial Medical Services, or for at least two years in Practice other than Practice restricted to Medicine.

¹ See footnote 1, page 545.

² See footnote 2, page 545, and 1, page 546.

Summary of Requirements under the Foregoing Ordinance.

During the curriculum a student must attend a course or courses of instruction in each of the following subjects:—

- | | |
|--|---|
| 1. Chemistry (including Organic Chemistry) | 100 meetings |
| 2. Practical Chemistry | 40 meetings (2 hours) |
| 3. Physics (with practical work) | 50 meetings |
| 4. Botany | 50 " |
| 5. Practical Botany | 25 meetings (2 hours) |
| 6. Zoology | 50 meetings |
| 7. Practical Zoology | 25 meetings (2 hours) |
| 8. Anatomy | 100 meetings |
| 9. Practical Anatomy | 15 months |
| 10. Physiology | 100 meetings |
| 11. Practical Physiology—Histology | 40 meetings (2 hours) |
| Chemical Physiology | 20 " " |
| Experimental Physiology | 20 " " |
| 12. Pathology (including Bacteriology) | 100 meetings |
| 13. Pathology (Practical) | 30 meetings (2 hours) |
| 14. Pathology (Morbid Anatomy) | 3 months |
| 15. Materia Medica, Pharmacology, and Therapeutics | 100 meetings |
| 16. Practical Materia Medica | 25 " |
| <i>or</i> | |
| Dispensing with Registered Chemist and Druggist. | 3 months |
| 17. Forensic Medicine | 50 meetings |
| 18. Public Health | 40 " |
| 19. Midwifery and Diseases peculiar to Women and Infants | 100 " |
| 20. Surgery | 100 " |
| 21. Medicine | 100 " |
| 22. Hospital Practice (Medical and Surgical) (3 years) | 27 months |
| 23. Clinical Surgery | 9 " |
| 24. Clinical Medicine | 9 " |
| 25. Mental Diseases | 6 lectures or demonstrations and 10 clinics |
| 26. Ophthalmology | 12 lectures and 12 clinics |
| 27. Operative Surgery | 30 meetings |
| 28. Dispensary Practice | 6 months |
| 29. Medical Clerk | 6 " |
| 30. Surgical Clerk and Dresser | 6 " |
| 31. Surgical Out-Patient Dresser | |
| 32. Infectious Diseases | 12 clinics |
| 33. Gynecology (Clinical) | 5 weeks |
| 34. Diseases of Children (Clinical) | 3 months |
| 35. Diseases of Larynx, Ear, and Nose. | 6 lectures or demonstrations and 12 clinics |
| 36. Diseases of the Skin (Clinical) | 20 meetings |
| 37. Practical Midwifery— | |
| (a) Twenty cases of labour, personally conducted, or | |
| (b) Three months' Maternity Hospital practice, and | |
| 12 cases personally conducted | |
| 38. Vaccination | 6 meetings |
| 39. Practical Anæsthetics | 6 lectures and 6 personal administrations |

REGULATIONS FOR GRADUATION OF WOMEN.

1. It shall be in the power of the University Court to admit Women to graduation.

2. The conditions for graduation shall be the same for women as for men, subject to the following modifications, which shall have effect until provision is made for the instruction of women in all the subjects qualifying for graduation in which provision is made for the instruction of men.

3. Section VIII. of Regulations for Degrees in Medicine shall not be applicable to the graduation of women in Medicine.

So long as within the Faculty provision is not made for the instruction of women in any subject qualifying for graduation in which provision is made for the instruction of men, it shall be in the power of the University Court to admit to graduation women who have received the requisite instruction in that subject in any University of the United Kingdom, or in any Indian, Colonial, or Foreign University recognised for the purpose by the University Court, or in such Medical Schools or under such teachers as may be recognised for the purpose by the University Court: Provided always that every Candidate for graduation shall produce evidence of having satisfied the conditions laid down in the Regulations for Degrees in Medicine with respect to the Preliminary Examination, and shall be examined in all the subjects necessary for graduation by the Examiners of the University.

4. So soon as within the University provision is made for the instruction of women in all subjects qualifying for graduation in which provision is made for the instruction of men, the conditions for the graduation of women shall be the same as the conditions for the graduation of men.

5. Women who attend classes in the University must matriculate, paying a fee of the same amount as that exigible for other students. Women who are candidates for graduation but not matriculated students, and who may attend classes in Edinburgh under the provisions above set forth, must, at the commencement of each year of such attendance, enrol their names in a book to be kept in the University for that purpose, paying a fee of the same amount as the matriculation fee paid by students of the University [and having, in respect of such payment, a right to the use of the Library of the University].

Extra-Academical Teachers in Edinburgh recognised by the University Court for the Academical Year 1912-13, whose courses of instruction given to WOMEN STUDENTS qualify for Graduation in Medicine under Ordinance No. 18 (General No. 9), Section III. (4)¹ :—

James A. Terras, B.Sc.	. . .	Botany.
Miss Marion I. Newbigin, D.Sc.	. . .	Zoology.
Dr Dawson Turner	. . .	Physics.
Dr T. W. Drinkwater	. . .	Chemistry.
Dr J. R. Whitaker	. . .	Anatomy.

¹ When granting recognition to Medical Schools or Teachers for the medical instruction of women, the University Court requires that the classes shall not be mixed classes, except on special cause shown.

Dr Alex. Goodall	Physiology.
Dr William Craig	Materia Medica.
Dr James Miller	Pathology.
Lewis Beesly, F.R.C.S.E. .	Surgery.
J. W. Dowden, F.R.C.S.E. .	Clinical Surgery.
Dr R. A. Fleming	Clinical Medicine.
Dr W. T. Ritchie	Medicine.
Dr J. W. Ballantyne	Midwifery.
Dr W. G. Aitchison Robertson .	Forensic Medicine.
Dr Wm. Robertson	Public Health.
Staff of Children's Hospital .	Diseases of Children.
Dr J. V. Paterson	Diseases of the Eye.
Dr J. Malcolm Farquharson .	Diseases of the Ear, Nose, and Throat.
N. T. Brewis, F.R.C.S.E. .	Clinical Gynecology.
Dr John Keay	Insanity.
Dr F. Gardiner	Skin Diseases.

THE CURRICULUM FOR DEGREES OF M.B. AND Ch.B.

Students from abroad are requested to bring with them, and present to the Dean, a letter of recommendation from a responsible official or head of the College at which they have been educated.

It is very advisable that all students from abroad should have completed the necessary Preliminary Examination requirements before coming to Edinburgh. See pp. 105-112.

Attention is directed to the regulation that all class fees must be paid at the commencement of each session. See p. 504.

Students may commence the study of Medicine either in April (Summer Session) or October (Winter Session), but it is strongly recommended by the Faculty of Medicine that study should begin in the Summer Session.

The following order of attendance on classes is laid down for students commencing in Summer and Winter respectively; and this must be followed, except in special cases authorised by the Faculty, on application to the Dean.

The earliest dates at which students may appear for the Professional Examinations are indicated.

Examinations are held in the subjects of the First, Second, and Third Professional Examinations in March, July, and October, and in the Final Examination in June and December.

FOR STUDENTS BEGINNING IN SUMMER.

<i>First Summer Term</i>		Hour of Meeting of Class.
Botany		8-9
Zoology		12-1
Practical Botany	} On alternate days {	9-11
Practical Zoology		10-12
Practical Anatomy (thrice weekly)		Afternoon

(Examination in Botany and Zoology.)

First Year.

Winter (1st Term)—

Practical Chemistry (twice weekly)	9-11
Anatomy	11-12
Chemistry	12-1
Physics ¹	1-2
Practical Anatomy	Afternoon

Winter (2nd Term)—

Practical Chemistry (twice weekly)	9-11
Anatomy	11-12
Chemistry	12-1
Physics ¹	1-2
Practical Anatomy	Afternoon

(Examination in Chemistry and Physics.)

Summer Term—

Histology	8-10 or 11-1
Practical Anatomy	

Second Year.

Winter (1st Term)—

Physiology	10-11
Practical Physiology (twice weekly)	11-1
Practical Anatomy and Demonstrations	

Winter (2nd Term)—

Physiology	10-11
Practical Physiology (twice weekly)	11-1
Practical Anatomy and Demonstrations	

(Examination in Anatomy and Physiology.)

Summer Term—

Pathology (Practical) (thrice weekly)	8-10
Pathology (Morbid Anatomy)	10-11
Surgical Out-patients	11-12
Clinical Surgery	12-2
Practical Materia Medica	Various hours

¹ The class of Physics meets thrice weekly during the Winter Session.

Third Year.*Winter (1st Term)—*Hour of Meeting
of Class.

Medicine	9-10
Pathology (Morbid Anatomy)	10-11
Clinical Medicine	11-1
Materia Medica	2-3
Pathology (including elementary Bacteriology)	3-4

Winter (2nd Term)—

Medicine	9-10
Pathology (Morbid Anatomy)	10-11
Clinical Medicine	12-1.30
Materia Medica	2-3
Pathology (including elementary Bacteriology)	3-4

*(Examination in Pathology and Materia Medica.)**Summer Term—*

Out-patients (Medical)	11-1
Vaccination	3-4
Dispensary Practice	Afternoon

Fourth Year.*Winter (1st Term)—*

Surgery		9-10
Midwifery (including Gynecology)		10-11
*Sec. A. Diseases of Skin	} 11-12.	Clinical Surgery 12-2
* „ B. Diseases of Eye		
* „ C. Diseases of Ear, etc.		
Dispensary Practice	}	Afternoon
Infectious Diseases (once weekly)		
Anæsthetics. ¹		
Optional Classes. ²		

* These Classes are held thrice weekly, and on remaining days Students must attend Clinical Surgery at 11 o'clock.

¹ A Course of Instruction is given in each term.

² Optional Courses are held in the subjects of *History of Medicine* (during the First Term of the Winter Session, twice weekly, 4 to 5 P.M., and may be attended by Students who have passed the 1st Professional Examination); *Physical Methods in the Treatment of Disease* (during the First Term of the Winter Session, 4 to 5 P.M., twice weekly, and open to Students who have passed the 3rd Professional Examination); *Neurology* (daily at 4 P.M. during the Second Term of the Winter Session and open to Students who have passed the 3rd Professional Examination); *Applied Anatomy* (thrice weekly, from 5 to 6 P.M. during First Term of Winter Session, and Students are recommended to take the class in the Fifth Winter.)

*Winter (2nd Term)—*Hour of Meeting
of Class.

Surgery				9-10
Midwifery (including Gynecology)				10-11
*Sec. A. Diseases of Ear, etc. }	11-12.	Clinical Surgery	12-2	
* „ B. Diseases of Skin				
* „ C. Diseases of Eye				
Mental Diseases (twice weekly)				3-4
Infectious Diseases (if not previously attended) }				Afternoon
Dispensary Practice				
Practical Midwifery				

Summer Term—

Operative Surgery				8-9.45
Public Health				10-11
Sec. A. Diseases of Children				11-1
„ B. Diseases of Ear, etc. }	11-12.	Clinical Medicine	12-1.30	
„ C. Diseases of Skin				
Forensic Medicine				2-3
Infectious Diseases (if not previously attended)				Afternoon

*(Examination in Forensic Medicine and Public Health.)***Fifth Year.***Winter (1st Term)—*

Clinical Gynecology				10-11
Sec. B. Diseases of Children				11-1
„ A. Diseases of Eye	11-12	Clinical Medicine	12-1.30	
„ C. Clinical Medicine or Clinical Surgery.				
Dispensary Practice }				Afternoon
Practical Midwifery }				
Optional Classes. ¹				

Winter (2nd Term) —

Clinical Gynecology				10-11
Sec. C. Diseases of Children				11-1
Secs. A. and B. Clinical Medicine or Clinical Surgery				12-1.30
Dispensary Practice }	if not previously attended			Afternoon
Practical Midwifery }				

*Summer Term—***Clinical Work in Hospital.***(Examination in Midwifery, including Gynecology, Surgery, and Medicine, and corresponding Clinical Examinations.)*

* See footnote *, p. 552.

¹ See footnote 2, p. 552.

FOR STUDENTS BEGINNING IN WINTER.

First Year.				Hour of Meeting of Class.
<i>Winter (1st Term)—</i>				
Practical Chemistry (twice weekly)	.	.	.	9-11
Anatomy	.	.	.	11-12
Chemistry	.	.	.	12-1
Physics ¹	.	.	.	1-2
Practical Anatomy (thrice weekly)	.	.	.	Afternoon

Winter (2nd Term)—

Practical Chemistry (twice weekly)	.	.	.	9-11
Anatomy	.	.	.	11-12
Chemistry	.	.	.	12-1
Physics ¹	.	.	.	1-2
Practical Anatomy (thrice weekly)	.	.	.	Afternoon

*(Examination in Chemistry and Physics.)**Summer Term—*

Botany	.	.	.	.	.	8-9
Zoology	.	.	.	.	.	12-1
Practical Botany	} On alternate days	}	.	.	.	9-11
Practical Zoology			.	.	.	10-12
Practical Anatomy	.	.	.	.	.	Afternoon

*(Examination in Botany and Zoology.)***Second Year.***Winter (1st Term) —*

Physiology	.	.	.	.	.	10-11
Practical Physiology (twice weekly)	.	.	.	.	.	11-1
Practical Anatomy.						

Winter (2nd Term)—

Physiology	.	.	.	.	.	10-11
Practical Physiology	.	.	.	.	.	11-1
Practical Anatomy and Demonstrations.						

Summer Term—

Histology	.	.	.	.	.	8-10 or 11-1
Practical Materia Medica.						
Practical Anatomy and Demonstrations.						

(Examination in Anatomy and Physiology.)

¹ The class of Physics meets thrice weekly during the Winter Session.

Third Year.Hour of Meeting
of Class.*Winter (1st Term)—*

Medicine	9-10
Pathology (Morbid Anatomy)	10-11
Clinical Medicine	11-1
Materia Medica	2-3
Pathology (including elementary Bacteriology).	3-4

Winter (2nd Term)—

Medicine	9-10
Pathology (Morbid Anatomy)	10-11
Clinical Medicine	12-1.30
Materia Medica	2-3
Pathology (including elementary Bacteriology).	3-4

Summer Term—

Pathology (Practical) (thrice weekly)	8-10
Pathology (Morbid Anatomy)	10-11
Clinical Surgery	12-2
Practical Materia Medica (if not previously attended).	
Vaccination	3-4

*(Examination in Pathology and Materia Medica.)***Fourth Year.***Winter (1st Term)—*

Surgery	9-10
Midwifery (including Gynecology)	10-11
*Sec. A. Diseases of Skin	} 11-12. Clinical Surgery 12-2
* „ B. Diseases of Eye	
* „ C. Diseases of Ear, etc.	
Dispensary Practice	} Afternoon
Infectious Diseases (once weekly) }	
Anæsthetics. ¹	
Optional Classes. ²	

Winter (2nd Term)—

Surgery	9-10
Midwifery (including Gynecology)	10-11
*Sec. A. Diseases of Ear, etc.	} 11-12. Clinical Surgery 12-2
* „ B. Diseases of Skin	
* „ C. Diseases of Eye	
Mental Diseases (twice weekly)	3-4
Infectious Diseases (if not previously attended) }	} Afternoon
Dispensary Practice	
Practical Midwifery	

¹ See footnote 1, p. 552.² A Course of Instruction is given in each term.³ See footnote 2, p. 552.

<i>Summer Term—</i>					Hour of Meeting of Class.
Operative Surgery	.	.	.	.	8-9.45
Public Health	.	.	.	.	10-11
Sec. A. Diseases of Children	.	.	.	.	11-1
„ B. Diseases of Ear, etc.	} 11-12.	Clinical Medicine			12-1.30
„ C. Diseases of Skin					
Forensic Medicine	.	.	.	.	2-3
Infectious Diseases (if not previously attended)	.	.	.	.	Afternoon
<i>(Examination in Forensic Medicine and Public Health.)</i>					

Fifth Year.

Winter (1st Term)—

Clinical Gynecology	.	.	.	.	10-11
Sec. B. Diseases of Children	.	.	.	.	11-1
„ A. Diseases of Eye	} 11-12.	Clinical Medicine			12-1.30
„ C. Clinical Medicine or Clinical Surgery.					
Dispensary Practice)	.	.	.	.	Afternoon
Practical Midwifery)	.	.	.	.	
Optional Classes. ¹					

Winter (2nd Term)—

Clinical Gynecology	.	.	.	.	10-11
Sec. C. Diseases of Children	.	.	.	.	11-1
Secs. A. and B. Clinical Medicine or Clinical Surgery	.	.	.	.	12
Dispensary Practice)	} if not previously attended				Afternoon
Practical Midwifery)					

Summer Term—

Clinical Work in Hospital.

(Examination in Midwifery, including Gynecology, Surgery, and Medicine, and corresponding Clinical Examinations.)

HONOURS IN CLASS EXAMINATIONS.

With a view to promoting the Educational interests of the students during the time they are occupied with the respective subjects in the Classes, the Senatus recommend:—

1. That there should be at least two Special Class-Examinations in the Classes in the Faculty of Medicine during each Session, conducted by means of questions and written answers, without aid from books or notes.

2. That in the event of a student gaining 75 per cent. or more of the available marks in any department, he shall obtain a Certificate in the First Class of Honours.

3. That in the event of a student gaining 50 per cent. or more, but less than 75 per cent. of the available marks in any department, he shall receive a Certificate in the Second Class of Honours.

University Bronze Medals are also given for Competitive Class Examinations.

¹ See footnote 2, p. 552.

HONOURS AT PROFESSIONAL EXAMINATIONS.

Candidates who have attained a sufficiently high standard at any of the Professional Examinations will be announced as having passed that Examination "with distinction."

Candidates who have displayed special merit in the Professional Examinations will be announced, at the time of Graduation, as having obtained FIRST or SECOND CLASS HONOURS, according to the merit that has been displayed.

CERTIFICATES OF ATTENDANCE ON CLASSES IN THE FACULTY OF MEDICINE.

The Senatus Academicus have resolved that the Certificates of Attendance to be granted to students in the Faculty of Medicine shall be regulated in the following manner :—

Each Professor shall ascertain the presence of his pupils at least twenty-six times in a Course of six months' duration, and thirteen times in a Course of three months' duration.

Those who have been absent on one-third or more of the occasions on which attendance has been ascertained, or have not duly performed the work of the Class, including any Examinations that may be held, shall not be entitled to any Certificate.

The following is the form of Certificate which must be adopted in all cases :—

"I certify that Mr _____ attended my Course of Instruction
on _____ during the Session _____ ; that he was present on
of the _____ occasions on which attendance was
ascertained ; and that he duly performed the work of the Class."

Exceptions will be admitted in the case of those who may be absent from sickness or other unavoidable causes, the particulars of which must be stated to the Professor in writing, accompanied with certificates. All excuses for non-attendance must be given in immediately upon the student returning to his class. If any student shall have been absent for six weeks or upwards in a Course of six months, or for three weeks in a Course of three months (whatever the cause of absence may be), his case must be transmitted to the Dean of the Faculty, for the decision of the Faculty.

Whenever the student's cause for absence shall be admitted by the Professor or by the Faculty, the Certificate shall bear that he "attended," and shall state the amount of the irregularity and the nature of the excuse.

FIRST PROFESSIONAL EXAMINATION.

The Faculty of Medicine have resolved that the written and oral examinations in Chemistry, Elementary Botany, Elementary Zoology, and Physics shall be restricted in the following manner :—

1. Chemistry.—Elements ; compounds ; mixtures. Laws and conditions of chemical combination. Molecular weights of gaseous, volatile, and dissolved substances. Osmotic pressure. The atomic theory. Atoms ; molecules. Atomic weights. Electrolysis, Quantivalence. The Periodic Law.

The non-metallic elements, and their chief compounds ; especially the compounds of oxygen, of hydrogen, and of chlorine with the other non-metals. The more important inorganic acids and bases. The atmosphere. Combustion. Oxidation and reduction.

The following metallic elements, and their chief compounds : Mercury, silver, lead, antimony, tin, copper, bismuth, zinc, iron, aluminium, chromium, manganese, barium, calcium, magnesium, potassium, sodium, lithium.

The chief processes of chemical industry.

Classification of Carbon Compounds. Hydrocarbons and their halogen derivatives. Alcohols and Ethers. Substituted ammonias and ammonium salts. Organic Acids and their derivatives. Aldehydes, Ketones. Esters, Fats and Oils, Saponification. Amides and Amino-Acids. Carbohydrates. Distillation of Wood and Coal. Benzene and its derivatives. Other homocyclic and heterocyclic rings. Cyanides, Cyanates, Thiocyanates, Urea, Purine Compounds. Proteins. Glucosides. Alkaloids. Synthetic Drugs. Dyes and Stains.

Practical Examination.—(a) Simple inorganic preparations on a small scale, especially such as involve the formation and decomposition of the commoner salts. (b) The qualitative examination of single substances. The substances given for examination may be :—Salts, acids and bases ; oxides ; elements ; typical organic substances, *e.g.*, Starch, Cane-sugar, Grape-sugar, Alcohol, Glycerol, Fatty Acids, Fats, Soaps, Chloroform, Urea, Uric Acid, Phenol, Salicylic Acid, Chloral. The salts given are confined to those derived from the metallic and salt radicals named in the following lists :—

Silver, Mercurous, Mercuric, Cupric, Lead, Stannous, Bismuth, Antimony, Arsenious, Zinc, Ferrous, Ferric, Chromic, Aluminium, Calcium, Barium, Magnesium, Ammonium, Sodium, Potassium, Lithium.

Carbonate, Sulphite, Thiosulphate, Sulphide, Hypochlorite (Bleaching solution), Nitrite, Chloride, Bromide, Iodide, Cyanide, Sulphate, Chromate, Manganate, Permanganate, Orthophosphate, Arsenite, Arsenate, Borate, Oxalate, Nitrate, Chlorate, Acetate, Tartrate, Citrate, Salicylate.

(c) Simple Volumetric Analysis.

2. Elementary Botany.—The characteristic features of the following groups and classes of the vegetable kingdom :—

Thallophyta ; Bryophyta ; Pteridophyta ; Spermatophyta.

The fundamental facts and principles of Organography and Physiology.

3. Elementary Zoology.—An elementary knowledge of the Protozoa, Cœlenterata, Annelida, Arthropoda, and Mollusca.

A general knowledge of the structure and habits of the Pisces, Amphibia, Reptilia, and Aves, and of the structure, habits, and distribution of the Mammalia.

A more detailed knowledge of:—

(1) The life-history of Protozoa associated with disease in man and the domestic animals, including—Entamœba, Trypanosomes, Malarial parasites, Piroplasma.

(2) Blood-sucking Arthropoda—Mosquitoes, Tse-tse flies, Ticks, their mouth-parts and other specialised organs.

(3) Flat-worms and Round-worms parasitic in man and in domestic animals.

The fundamental facts as to (1) the structure, etc., of the cell; (2) Sexual and Asexual Reproduction; (3) Heredity and Variation; (4) Maturation, Fertilisation, and Segmentation of the Ovum; (5) the Development of Amphioxus and Scyllium and the fetal appendages of Birds and Mammals; and (6) Parasitism and Degeneration.

4. Physics.—(a) Properties of Matter—including Statics and Kinetics of Solid, Liquid, and Gaseous Bodies, Inertia, Gravitation, Molecular Forces, etc.

(b) Sound and Wave-propagation in general. Intensity, Pitch and Quality of Musical Sounds, Harmonics, Concords, Interference.

(c) Heat, its Nature, Effects, Measurement, Transference and Transformations. Measurement of Temperature and of absolute Temperature, Efficiency.

(d) Light, Laws of Reflection and Refraction, Production of Images in Mirrors, Lenses, Microscopes, and Achromatic Lenses, Conditions of Distinct Vision; Interference, Dispersion, Diffraction, Double Refraction, Polarisation, Fluorescence, Radiation, and Spectrum Analysis.

(e) Electricity and Magnetism; Capacity, Potential, Electromotive Force, Current, Resistance, Magnetic Field; Thermo-Electricity; Electrolysis; Magneto-Electricity; Batteries, Galvanometers, Voltmeters, Induction Coils, Dynamos; Radio-activity, etc.

DIPLOMA IN TROPICAL MEDICINE AND HYGIENE (D.T.M. and H.).

(See page 593.)

DIPLOMA IN PSYCHIATRY (Dipl. Psych.)

(See page 597.)

SPECIAL CERTIFICATE IN DISEASES OF TROPICAL CLIMATES (open to Men and Women).¹

1. Each Course of Instruction shall be open to (1) Qualified Medical Practitioners; (2) Students who have completed the Curriculum for the Final Examination in Medicine of any of the Qualifying Medical Authorities; and (3) others specially interested in the subject.

2. Certificates of attendance will be granted as follows:—(a) A Class Certificate to each member of the Class who has performed the work of the Class in a satisfactory manner; (b) A University Certificate by the Dean of the Faculty of Medicine to each member of the Class who besides having attended the course of instruction in Tropical Diseases, has attended a course of instruction on Pathological Bacteriology, including the Micro-organisms of Tropical Diseases, and who has performed the work of both of these Classes in a satisfactory manner. This Certificate shall be based on evidence received from the Lecturers on Pathological Bacteriology and Tropical Diseases.

FEES FOR EXAMINATIONS.

M.B., Ch.B.

The full fee for each Professional Examination must be paid on first entry for any part of the examination.

<i>First Professional Examination</i>	£6 6 0
<i>Second Professional Examination (Anatomy and Physiology)</i>	5 5 0
<i>Third Professional Examination (Pathology and Materia Medica)</i>	4 4 0
<i>Final Examination</i>	7 7 0
	£23 2 0

Any candidate who fails to pass in one or more of the subjects must pay £1, 1s. for re-examination in each subject; or, in the case of the Final Examination, £6, 6s. for re-examination in all subjects.

* * Candidates who, under the proviso in Sections XII. and XIII. of the Regulations, are exempted from the first division of the examination, are required, after passing the final division of the examination, to pay a fee of £6, 6s. before they can be admitted to the Degrees of M.B. and Ch.B.

M.D. and Ch.M.

M.D.	£15 15 0
Ch.M.	15 15 0

Any candidate who fails to pass the examinations for the Degree of M.D. or for the Degree of Ch.M., is required to pay a fee of £5, 5s. for each re-appearance.

¹ To obtain this Special Certificate, or Class Certificates, the full matriculation fee (£1, 1s.) must be paid.

Every candidate for examination or graduation must be a matriculated student of the year in which he appears for examination or graduation. He is also required, before graduation, to pay the fee of £1 for Registration as a Member of the General Council (if not already a Member), *not later than 4 o'clock on the last day but two before the Graduation.*

TIME-TABLES OF EXAMINATIONS.

Candidates are required to enter for each periodical Professional Examination at which they desire to appear, and to state the subject or subjects in which they desire to be examined.

The dates of the examinations for 1914-1915 have been fixed as follows, and the examinations will take place in the Examination Rooms, Old Buildings.

PRELIMINARY EXAMINATION.

See Time-Table and Dates of Entering, etc., pages 102 and 112.

PROFESSIONAL EXAMINATIONS.

Candidates are required to enter their names and to pay the fees for the examinations, at the Matriculation Office, University (Old) Buildings, at the stated periods; and afterwards, at the stated periods, to exhibit their Certificates at the Office of the Faculty of Medicine. Certificates only will be received as evidence of attendance upon Courses of Instruction.

If names are not entered, Fees paid, and Certificates shown, or Theses lodged, on or before the stated dates (or a Pass obtained in the case of the fee having been previously paid), a *Late-entry Fee* of ten shillings must be paid before the candidate can be admitted to any one of the Four Professional Examinations for M.B., or to the Professional Examinations for M.D. or Ch.M. Candidates may enter on payment of this fee till 4 P.M. on the third day previous to the commencement of the respective examinations. Thereafter a late-entry fee of twenty shillings will be charged till twelve noon of the day preceding the commencement of any one of the Professional Examinations. No later entry will be received.

Theses for the Degrees of M.D. and Ch.M. can only be lodged later than the appointed dates by getting special permission from the Dean to do so, and the utmost extension that will be given is ten days. Theses so lodged are not eligible for competition for medals or other awards. The late-entry fee of ten shillings will also be payable.

If, after payment of the fee, a candidate withdraws his name, or fails to present himself at the examination, he will not receive back the fee, but will be allowed to enter on one subsequent occasion for examination in the same subject, without the payment of any additional fee.

Where a candidate appears for part of an examination, but fails to appear for another part for which he had entered, without giving notice of his intention not to appear, he will be held to have failed in the part for which he entered but did not appear.

PROFESSIONAL EXAMINATIONS FOR M.B., Ch.B.

SEPTEMBER-DECEMBER.

Dates of Entry.

1914		
Sept. 18.	Fri.	First Professional Examination.
" 22.	Tu.	Second " "
" 23.	Wed.	Third " "
(Office hours, 10 to 1.)		
Nov. 12.	Th.	} Final Professional Examination.
" 13.	Fri.	
" 19.	Th.	Practical Materia Medica.

Dates for Showing Certificates.

Sept. 28.	Mon.	First Professional Examination, from 10 to 12.
" 29.	Tu.	Second and Third Professional Examinations, from 10 to 12.
Nov. 23.	Mon.	Final Professional Examination, from 10 to 1.
Dec. 9.	Wed.	Practical Materia Medica, from 10 to 12.

Days and Hours of Examinations.

Oct. 2.	Fri.	Chemistry, 10; Anatomy, 10; Physics, 2; Physiology, 2.
" 3.	Sat.	Botany, 9; Pathology, 9; Zoology, 12; Materia Medica, 12.
Nov. 24.	Tu.	Surgery, 10; Medicine, 2.
" 25.	Wed.	Midwifery, 10; Forensic Medicine, 2.
" 26.	Th.	Public Health, 10.
Dec. 4.	Fri.	Final Clinical Medicine commences at 11.45.
" 7.	Mon.	Final Clinical Surgery commences at 10.
" 11.	Fri.	Practical Materia Medica, 9.
" 18.	Fri.	GRADUATION CEREMONIAL.

MARCH.**Dates of Entry.**

1915		
Mar. 6.	Sat.	} First Professional Examination.
" 8.	Mon.	
" 9.	Tu.	} Third Professional Examination and Practical Materia Medica.
" 10.	Wed.	
" 11.	Th.	} Second Professional Examination.
" 12.	Fri.	

Dates for Showing Certificates.

" 15.	Mon.	Third Professional and Practical Materia Medica, from 10 to 1.
" 16.	Tu.	First Professional, from 10 to 1.
" 17.	Wed.	Second Professional, from 10 to 1.

1915

Days and Hours of Examinations.

Mar.	16.	Tu.	Practical Materia Medica, 9.
"	18.	Th.	Chemistry, 10 ; Physics, 2.
"	19.	Fri.	Botany, 10 ; Anatomy, 10 ; Zoology, 2 ; Physiology, 2.
"	20.	Sat.	Pathology, 9 ; Materia Medica, 12.

MAY-JUNE-JULY.**Dates of Entry.**

May	10.	Mon.	} Final Professional Examination.
"	11.	Tu.	
June	17.	Th.	} Third Professional and Practical Materia Medica.
"	18.	Fri.	
"	21.	Mon.	} Final Professional. (Forensic Medicine and Public Health only.)
"	22.	Tu.	
"	23.	Wed.	} First Professional.
"	24.	Th.	
"	25.	Fri.	} Second Professional.
"	26.	Sat.	

Dates for Showing Certificates.

May	19.	Wed.	} Final Professional Examination, from 10 to 1.
"	20.	Th.	
June	29.	Tu.	Third Professional and Practical Materia Medica, from 10 to 1.
"	30.	Wed.	First Professional, from 10 to 1.
July	1.	Th.	Second Professional, from 10 to 1.
"	2.	Fri.	Final Professional (For. Med. and Pub. Health), from 10 to 1.

Days and Hours of Examinations.

May	21.	Fri.	Medicine, 10 ; Surgery, 2.
"	22.	Sat.	Midwifery, 10.
June	11.	Fri.	<i>Final Clinical Medicine commences at 11.45.</i>
"	14.	Mon.	<i>Final Clinical Surgery commences at 10.</i>
July	1.	Th.	Practical Materia Medica, 9.
"	3.	Sat.	Chemistry, 9 ; Forensic Medicine, 9 ; Physics, 12 ; Public Health, 12.
"	5.	Mon.	Botany, 9 ; Anatomy, 12 ; Zoology, 3.
"	6.	Tu.	Pathology, 9 ; Physiology, 12 ; Materia Medica, 3.
July	15.	Th.	GRADUATION CEREMONIAL.

DEGREE OF DOCTOR OF MEDICINE.

1914.

Theses.

Oct.	1.	Th.	Theses to be lodged, Certificates shown, and Fees paid <i>on or before</i> this date.
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1915.

Mar.	31.	Wed.	Theses to be lodged, Certificates shown, and Fees paid <i>on or before</i> this date.
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1914.

Clinical Examinations.

Nov. 13. Fri. Names to be entered and Fees paid *on or before* this date.

" 27. Fri.

" 28. Sat.

Dec. 18. Fri.

} Clinical Medicine Examination at 9.45 A.M. each day.

GRADUATION CEREMONIAL.¹

1915.

May 21. Fri.

Names to be entered and Fees paid by candidates for Clinical Examination only, *on or before* this date.

June 4. Fri.

" 5. Sat.

" 7. Mon.

" 8. Tu.

} Clinical Medicine Examination begins at 9.45 A.M. each day for *first* section of candidates.

} Clinical Medicine Examination begins at 9.45 A.M. each day for *second* section of candidates.

July 15. Th.

GRADUATION CEREMONIAL.¹

DEGREE OF MASTER OF SURGERY.

1914.

Theses.

Oct. 1. Th.

Theses to be lodged, Certificates shown, and Fees paid *on or before* this date.

1915.

Mar. 31. Wed.

Theses to be lodged, Certificates shown, and Fees paid *on or before* this date.

1914.

Examinations.

Nov. 5. Th.

Names to be entered and Fees paid by candidates for examination only, *on or before* this date.

" 19. Th.

" 20. Fri.

Clinical Surgery: Written Cases 10 A.M.; Oral 4 P.M.
Surgical Anatomy, Operations, etc., 10.30 A.M.

Dec. 18. Fri.

GRADUATION CEREMONIAL.¹

1915.

May 24. Mon.

Names to be entered and Fees paid by candidates for examination only, *on or before* this date.

June 7. Mon.

" 8. Tu.

Clinical Surgery: Written Cases 10 A.M.; Oral 4 P.M.
Surgical Anatomy: Operations, etc., 10.30 A.M.

July 15. Th.

GRADUATION CEREMONIAL.¹

Information relative to Matriculation and the Curriculum of Study, and the Subjects of Examinations for Degrees in Medicine and Surgery, and for Fellowships, Scholarships, Bursaries, Prizes, etc., etc., may be obtained on application to the Dean of the Faculty of Medicine, University New Buildings.

The fees for Matriculation, for Examinations for Degrees, and for Registration as Member of the General Council of the University, are payable at the *Matriculation Office, University (Old) Buildings*. Candidates who cannot pay the fees personally, may transmit them to JAS. DOWIE, University, Edinburgh, by *Money Orders* or *Postal Orders*, or by *Bank Draft*, crossed "*Union Bank of Scotland (Hunter Square Branch), Edinburgh.*"

¹ Graduands who hold the King's Commission are expected to appear for graduation in uniform, and with whatever medals and decorations they may possess.

EXTRA - ACADEMICAL TEACHERS WHOSE COURSES OF INSTRUCTION ARE RECOGNISED AS QUALIFYING FOR GRADUATION IN MEDICINE IN THIS UNIVERSITY.

REGULATIONS OF THE UNIVERSITY COURT RELATIVE TO CERTIFICATES OF ATTENDANCE.

The Certificate of Attendance granted to Students by recognised Extra-Academical Teachers should, in all cases, state the number of Lectures, or of Meetings for Practical Instruction, in the Course; the number of occasions on which attendance was ascertained; and the number of those occasions on which the Student was present, and in what further respects he duly performed the work of the class. The Certificate should also state the general scope of the Course; and, in particular, in the case of *Chemistry*, that the Course included Organic as well as Inorganic Chemistry; in the case of *Midwifery*, that it included the Diseases of Women and Children; and, in the case of *Practical Materia Medica*, that it included Pharmacognosy, Pharmacy, Dispensing, and the writing of Prescriptions.

Aberystwyth.

Date of Recognition.

Alexander Findlay . . .	Chemistry and Practical Chemistry	18 Dec. 1911.
H. J. Fleure, D.Sc. . . .	Zoology	14 Dec. 1908.
D. Morgan Lewis	Physics	16 July 1894.
R. H. Yapp, M.A.	Botany	14 Mar. 1904

Bangor.

K. J. P. Orton, M.A., Ph.D. .	Chemistry (Systematic and Practical)	15 Apr. 1912.
Reginald W. Phillips, M.A. .	Botany	30 May 1885.
Philip J. White, M.B. . . .	Natural History . . .	9 Dec. 1889.

Bradford.

William West	Botany	} 20 June 1913.
J. A. Tomkins	Physics	
B. North	Chemistry ¹	

Brighton.

M. C. Clutterbuck, F.C.S. . .	Chemistry	17 Feb. 1908.
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Cardiff.

John Berry Haycraft, M.D. . .	Physiology	16 July 1894.
David Hepburn, M.D.	Anatomy and Practical Anatomy	19 Oct. 1903.
W. N. Parker, Ph.D.	Natural History . . .	28 July 1886.
Arthur L. Selby, M.A.	Physics	21 Oct. 1895.

(Lecture Course may be divided between two consecutive Sessions.)

A. H. Trow, B.Sc.	Botany	16 July 1894.
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¹ Inorganic Courses of the College, along with Part I. of Organic Courses, or equivalent Courses. This Recognition does not include the College Medical Courses in Chemistry.

Cork.

	<i>Date of Recognition.</i>
Marcus Hartog, M.D., D.Sc. . Zoology . . .	18 Mar. 1895.

Edinburgh.

Byrom Bramwell, M.D., and Edwin Bramwell, M.B. (conjointly)	Practice of Medicine . . .	24 Oct. 1910.
James Burnet, M.D. . . .	Pract. Materia Medica . . .	12 Nov. 1906.
George L. Chiene, M.B., C.M.	Surgery	15 July 1907.
Wm. Craig, M.D.	Materia Medica and Practical Materia Med. . . .	14 July 1879.
T. W. Drinkwater, Ph.D. . .	{ Chemistry	8 Mar. 1880.
	{ Practical Chemistry . . .	14 July 1879.
William Duncan	Pract. Materia Medica . .	12 Apr. 1886.
J. M. Farquharson, M.D. . .	Diseases of the Ear, Nose, and Throat . . .	15 Apr. 1907.
R. A. Fleming, M.A., M.D. .	Practice of Medicine . . .	15 July 1907.
W. Fordyce, M.D.	Midwifery	24 Oct. 1904.
E. S. Fry, M.B.	Practical Materia Medica .	21 Oct. 1895.
G. H. Gemmell	Practical Chemistry . . .	13 May 1901.
Alexander Goodall, M.D. . .	{ Physiology	12 Nov. 1906.
	{ Practical Physiology . . .	17 Dec. 1906.
G. Lovell Gulland, M.D. . . .	Practice of Medicine . . .	15 July 1907.
D. Berry Hart, M.D.	Midwifery	22 Oct. 1894.
John Keay, M.D.	Mental Diseases	12 Apr. 1909.
Malcolm Laurie, D.Sc. . . .	Zoology	14 Dec. 1903.
Arch. M'Kendrick, F.R.C.S.E.	Physics	16 Mar. 1914.
Hugh Miller	Zoology (Systematic and Practical)	15 Apr. 1912.
James Miller, M.D.	Pathology and Practical Pathology	19 July 1909.
John Orr, M.D.	Materia Medica (Systematic and Practical)	18 Nov. 1912.
		12 May 1913.
J. V. Paterson, M.B., C.M. . .	Diseases of the Eye . . .	17 Mar. 1913.
Wm. Robertson, M.D.	Public Health	15 Apr. 1907.
W. G. Aitchison Robertson, M.D.	Forensic Medicine	14 May 1906.
John Stuart Ross, M.B. . . .	Anæsthetics (Systematic and Practical)	14 Mar. 1910.
A. A. Scot Skirving, M.B., C.M.	Surgery	15 Dec. 1902.
G. F. Barbour Simpson, M.D.	Midwifery and Gynecology	13 Nov. 1911.
J. W. Struthers, M.B., Ch.B.	Surgery	18 Oct. 1909.
W. J. Stuart, M.B., Ch.B. . .	Surgery	18 Apr. 1910.
James Adam Terras, B.Sc. . .	Botany	12 Dec. 1898.
Dawson F. D. Turner, M.D. . .	Physics	20 Mar. 1893.
Henry Wade, M.D.	Surgery	19 Oct. 1908.
J. R. Whitaker, M.B.	Anatomy	16 July 1894.

Glasgow.*Date of Recognition.*

A. M. Buchanan, M.D. . . .	Anatomy and Practical	12 Oct. 1874.
	Anatomy	
John Cowan, M.D. . . .	Medicine	18 Nov. 1912.
Professor L. A. L. King . . .	Zoology	15 June 1914.

Huddersfield.

W. R. Bower	Physics	14 Jan. 1907.
J. Bruce, D.Sc. . . .	Chemistry	14 Dec. 1908.
T. W. Woodhead, Ph.D. . .	Botany	14 Jan. 1907.

Nottingham.

E. H. Barton, D.Sc. . . .	Physics	12 Nov. 1906.
J. W. Carr, M.A. . . .	Botany	16 Jan. 1893.
F. Stanley Kipping, Ph.D. .	Chemistry	17 Nov. 1913.
D.Sc.		
E. Holden, B.Sc. . . .	Zoology	15 June 1914.

Reading.

F. J. Cole, D.Sc. . . .	Zoology	14 Dec. 1908.
W. G. Duffield, M.A., D.Sc. .	Physics	24 July 1911.
Frederick Keeble, M.A., Sc.D.	Botany	14 Dec. 1908.

Southampton.

D. R. Boyd, D.Sc., Ph.D. . .	Chemistry	13 Feb. 1905.
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South Africa.**I. SOUTH AFRICAN COLLEGE, CAPE TOWN.**

P. D. Hahn, Ph.D., M.A. . .	Chem. (Theoretical and Practical)	22 Oct. 1900.
J. C. Beattie, D.Sc., and Alex. Brown, B.Sc., conjointly . .	Courses in Physics and Applied Mathematics ¹	16 May 1904.
Dr J. D. F. Gilchrist . . .	Zoology	18 Dec. 1905.
William A. Jolly, M.D. . .	Physiology (Systematic and Practical)	18 Nov. 1912.
H. H. W. Pearson, M.A. . .	Botany	16 May 1904.
R. B. Thom-son, M.B., Ch.B. .	Anatomy and Practical Anatomy	15 Jan. 1912.

¹ Attendance on both Courses required for a QUALIFYING CERTIFICATE IN PHYSICS.

2. VICTORIA COLLEGE, STELLENBOSCH.

	<i>Date of Recognition.</i>
W. E. Malherbe, B.Sc. . . . Physics	18 June 1906.
B. de St J. Van der Reit, Chemistry	14 Mar. 1904.
M.A., Ph.D.	

(Certificate to include attendance on the Organic, Inorganic, and Practical Departments of the Course.)

Miss A. V. Duthie, B.A. . . . Botany	16 Jan. 1905.
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3. RHODES UNIVERSITY COLLEGE, GRAHAMSTOWN.

George E. Cory, M.A. . . . Chemistry ¹	13 Nov. 1905.
J. E. Duerden, Ph.D., M.Sc. . . . Zoology	13 Nov. 1905.
A. Ogg, M.A., B.Sc. . . . Physics	13 Nov. 1905.
S. Schönland, Ph.D. . . . Botany ¹	13 Nov. 1905.

4. NATAL UNIVERSITY COLLEGE, PIETERMARITZBURG.

J. W. Bews, M.A., B.Sc. . . . Botany	18 May 1911.
R. B. Denison, D.Sc. . . . Chemistry ²	18 May 1911.
Ernest Warren, D.Sc. . . . Zoology	18 Dec. 1905.

5. SOUTH AFRICAN SCHOOL OF MINES AND TECHNOLOGY,
JOHANNESBURG.

J. A. Wilkinson, M.A. . . . Chemistry	18 June 1906.
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6. TRANSVAAL UNIVERSITY COLLEGE, PRETORIA.

P. G. Gundry, Ph.D., D.Sc. . . . Physics	16 May 1910.
D. du T. Malherbe, M.A., Chemistry	16 May 1910.
Ph.D.	
Horace A. Wager Botany	12 Feb. 1906.

7. HUGUENOT COLLEGE, WELLINGTON.

Miss Jessie E. Minor Chemistry ²	17 Nov. 1913.
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¹ The qualifying Courses are those for the Intermediate and for the B A. Examinations of the University of the Cape of Good Hope.

² Certificate to include Elementary Inorganic and Practical Inorganic, and Elementary Organic and Practical Organic.

³ Certificates to include attendance on following Courses:—(1) Intermediate Lectures and Laboratory Work; (2) B.A. Lectures and Laboratory Work.

REGULATIONS FOR GRADUATION IN MEDICINE AND SURGERY, APPLICABLE TO ALL WHO COMMENCED THEIR MEDICAL STUDIES BEFORE FIRST OCTOBER 1892.

*For full Regulations, see CALENDAR for 1898-99, or previous
CALENDARS.*

PRELIMINARY EXAMINATIONS.

Optional Preliminary Subjects of Examination under the Old Regulations for Bachelors of Medicine and Masters in Surgery (M.B., C.M.) who intend to proceed to the Degree of Doctor of Medicine, and for those who commenced the Study of Medicine by attendance on Medical Classes before 1st October 1892.

Each Candidate is required to pay a fee of 10s. 6d. for each appearance at the Preliminary Examination.

1. GREEK.—Xenophon, *Cyropaedia*, Book II. Questions on Elementary Greek Grammar. Some easy sentences of English will be set, to be translated into Greek.

2. FRENCH.—Alphonse Daudet's *Le petit Chose, première partie* (Hachette & Co.). Questions on Elementary French. An easy passage in English will be given for translation into French.

3. GERMAN.—Homann, *Deutsche Märchen*, Nos. 8-14. Questions on Elementary German. An easy passage in English will be given for translation into German.

4. HIGHER MATHEMATICS.—Same as Higher Mathematics for the Preliminary Examination for the Degree of M.A.

5. NATURAL PHILOSOPHY. — (1) Properties of matter — Elasticity, Density, Capillarity, etc. (2) Elementary phenomena of Sound, Light, Heat, Electricity, and Magnetism. Text-books recommended—Balfour Stewart's *Elementary Physics*, and Tait's *Properties of Matter*.

6. LOGIC.—The Elements of Deductive and Inductive Logic, as in Jevons's *Elementary Lessons*.

7. MORAL PHILOSOPHY.—Professor Seth's *Ethical Principles*, Introduction and Part I.

DEGREE OF DOCTOR OF MEDICINE.¹

The Degree of DOCTOR OF MEDICINE may be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and

¹ Candidates for M.D. under Old Regulations, who have not passed all the required Preliminary subjects may, if they prefer to do so, take the examination in Clinical Medicine, and graduate under the New Regulations. (See page 544.)

Master in Surgery, and is of the age of twenty-four years, and produces a certificate of having been engaged, subsequently to his having received the Degrees of Bachelor of Medicine and Master in Surgery, for at least two years in attendance on an Hospital, or in the Military or Naval Medical Services, or in Medical and Surgical Practice :

Provided always that the Degree of Doctor of Medicine shall not be conferred on any person, unless he be a Graduate in Arts of one of the Universities of England, Scotland, or Ireland, or of such other Universities as have been specially recognised for that purpose, or unless he shall, before or at the time of his obtaining the Degrees of Bachelor of Medicine and Master in Surgery, or thereafter, have passed a satisfactory examination in Greek, and in either Logic or Moral Philosophy, and in one of the following subjects at the option of the Candidate—namely, French, German, Higher Mathematics, and Natural Philosophy.

And provided also that the candidate for the Degree of Doctor of Medicine shall submit to the Faculty of Medicine a Thesis, certified by him to have been composed by himself, and which shall be approved by the Faculty, on any branch of knowledge comprised in the professional examinations for the Degrees of Bachelor of Medicine and Master in Surgery, which he may have made a subject of study after having received those Degrees. The Candidate must lodge his Thesis with the Dean by the specified date (see below).¹ No Thesis will be approved by the Medical Faculty which does not contain either the results of original observations in practical Medicine, Surgery, Midwifery, or in some of the sciences embraced in the curriculum for the Bachelor's and Master's Degrees ; or else a full digest and critical exposition of the opinions and researches of others on the subject selected by the Candidate, accompanied by precise references to the publications quoted, so that due verification may be facilitated.

Candidates settled for a period of years in foreign parts, who have complied with all the regulations for the Degree of M.D., but who cannot appear personally to receive the Degree, may, on satisfying the Senatus to that effect, by production of sufficient official testimonials, have the Degree conferred on them in absence.

Fee for M.D.	.	.	.	.	.	.	£5 5 0
Matriculation Fee	.	.	.	.	.	.	1 1 0

1914.

Oct. 1. Th. Theses to be given in, Certificates shown, and Fees paid
on or before this date.

1915.

Mar. 31. Wed. Do. do.

1914.

Dec. 18. Fri. GRADUATION CEREMONIAL.

1915.

July 15. Th. Do. do.

¹ See footnote 1, p. 546.

FELLOWSHIPS, SCHOLARSHIPS, BURSARIES, PRIZES, ETC.

I. Fellowships, Scholarships, Endowments for Research, etc., in the Faculty of Medicine.

(ARRANGED ALPHABETICALLY.)

Note.—The values of Fellowships and Scholarships are stated *approximately*: the accuracy of the figures is not guaranteed.

Regulations as to Candidature for, and Tenure of Fellowships, Scholarships, etc., are given on page 592.

ALLAN FELLOWSHIP IN CLINICAL MEDICINE AND CLINICAL SURGERY. (Open July 1915.)

This Fellowship, of about £54, is awarded annually—after competitive examination of the six candidates for the degrees of M.B., C.M., or M.B., Ch.B., who, after having attended in the University of Edinburgh the necessary qualifying courses in Clinical Medicine and Clinical Surgery, shall obtain the highest percentage of marks in these subjects at the final examination for these degrees. See Deed of Endowment and Regulations, p. 833 of CALENDAR for 1899-1900.

1914, DOUGLAS J. GLEN, M.B., Ch.B.

BUCHANAN SCHOLARSHIP. (Open July 1915.)

This Scholarship, of the value of about £39, founded by Mrs Jane Jack or Buchanan, Moray Place, Edinburgh, is awarded annually to the Graduate in Medicine of the year who has shown the highest proficiency in Midwifery and Gynecology, as evidenced in (1) the Class Examinations of Midwifery and Diseases of Women and Children; (2) the Records kept by him of cases treated in the Gynecological Section of the University Class of Clinical Medicine in the Buchanan Ward of the Royal Infirmary; and (3) the Final Examination in Medicine for the Degree of M.B. The Scholar is required to act for a period of six months as Resident Physician in the University Gynecological Ward. See Deed of Foundation, p. 707 of CALENDAR for 1894-95.

1914, PETER MACCALLUM, M.A., M.Sc., M.B., Ch.B.

CARNEGIE POST-GRADUATE SCHOLARSHIPS (£100), FELLOWSHIPS (£150), AND GRANTS IN AID OF RESEARCH.

Graduates of this University are entitled to become Candidates. Application forms may be had from the Secretary to the Carnegie Trust, The Merchants' Hall, 22 Hanover Street, Edinburgh, to whom all com-

munications on the subject must be addressed. Nominations for Scholarships and applications for Fellowships and Grants in Aid must be lodged with the Secretary not later than 15th April.

COLDSTREAM MEMORIAL MEDICAL MISSIONARY SCHOLARSHIP. (Open Oct. 1914.)

The Coldstream Memorial Medical Missionary Scholarship, consisting of the annual interest of about £500, was founded in memory of the deceased John Coldstream, M.D., F.R.C.P.E., and is tenable for five years. The holder must be a first year's Medical Student, who intends to devote himself to the life of a Medical Missionary at home or abroad. He must be approved of by the awarders, and pass the Preliminary Examination before beginning his studies. A preference is given to students connected with the Edinburgh Medical Missionary Society. A full copy of the conditions can be had on applying to G. E. R. Coldstream, W.S., 55 Frederick Street, Edinburgh. Next award may be in October 1914. See Conditions in CALENDAR for 1879-80, p. 357.

1909, STANLEY E. BETHELL.

CRICHTON SCHOLARSHIPS FOR RESEARCH.

(Open Oct. 1914.)

Four Scholarships, each of the value of £100 (with an allowance, not exceeding £25, for expenses of research), and tenable for one year, with power of re-appointment for a second and for a third year, are open in rotation in the subjects of Anatomy, Physiology, Materia Medica, and Pathology, for the prosecution of Research by Graduates who have been Students of this University for not less than four years. The Scholarships in Pathology, Anatomy, and Physiology, may be open in October 1914. Candidates are required to enter their names and to give a sufficient description of the Research Work they propose to undertake, to the Professors of the subjects in which the Scholarships are to be awarded, and to the Dean of the Faculty of Medicine, on or before 1st September. The Examination is both written and practical, bearing on Research Work. See Regulations, p. 750 of CALENDAR for 1895-96.

1912, D. M. LYON, M.B., Ch.B. (Pathology); N. H. BOLTON, M.B., Ch.B. (Pathology); J. ARGYLL CAMPBELL, M.D. (Physiology).

1913, STUART BOLTON, M.B. (Anatomy).

DICKSON TRAVELLING FUND. See **Faculty of Arts.**

ETTLES SCHOLARSHIP IN MEDICINE. (Open July 1915.)

This Scholarship was founded in 1868 by Miss Mary Ettles of Inverness, and is of the annual value of about £39. It is awarded annually to the Bachelor of Medicine and Master in Surgery, or Bachelor of Medicine and Bachelor of Surgery, of the University of Edinburgh whom the Faculty of Medicine may consider the most distinguished of that year. See Deed of Foundation at p. 242 of CALENDAR for 1868-69.

1914, RALPH C. L. BATCHELOR, M.A., M.B., Ch.B.

FREELAND BARBOUR FELLOWSHIP. (Open July 1915.)

This Fellowship is of the value of about £100, and is open to award, in each alternate year, to the Bachelor of Medicine and Bachelor of Surgery who has gained the highest collective marks in Anatomy, Physiology, and Pathology in the Professional Examinations, and who is prepared, within two years after graduation, to devote not less than one year to original research in Midwifery or diseases of women, in any of the Laboratories or Practical Departments of the University of Edinburgh. The next award may be made in July 1915. See Deed of Foundation at p. 517 of **CALENDAR** for 1889-90.

1913, THOMAS DOUGLAS INCH, M.B., Ch.B.

GOODSIR MEMORIAL FELLOWSHIP. (Open July 1915.)

This Fellowship was founded in 1872 by the subscribers to the fund for a memorial of Professor John Goodsir, for the encouragement of the study of Anatomy and Physiology. It is of the annual value of about £138, under deduction of Examiners' fees, is tenable for two years, and is open to all Graduates in Medicine of the University of not more than three years' standing at the time of the competition, and to Licentiates of the Colleges of Physicians or Surgeons of Edinburgh of a like standing, who have attended within the University the same number of classes as are required for the Degrees of M.B. and Ch.B. It is awarded for the best Essay or Treatise containing results of original investigations in Anatomy, Human and Comparative, either Normal or Pathological, or in Experimental Physiology; candidates may be examined *viva voce* or otherwise on the subject of their Essays or Treatises if the Examiners shall deem this desirable.

The next award may be made in July 1915, and competing Dissertations must be lodged with the Professor of Anatomy not later than the 31st March of that year. See Deed of Foundation at p. 314 of **CALENDAR** for 1872-73.

1913, FRANCIS GORDON BELL, M.D., Ch.B.

GROCCERS' COMPANY OF LONDON SCHOLARSHIPS.

The Grocers' Company of London offer Scholarships of £300 a year, with an allowance to meet cost of apparatus and other expenses in connection with the Research Work, tenable for one year, but renewable for a second or third year, subject to the conditions of the Scheme under which they are established. Apply to the Clerk to the Grocers' Company, Grocers' Hall, London, E.C., from whom forms of application and all necessary information may be obtained.

HOPE PRIZE SCHOLARSHIPS. (Open June 1915.)

Three Hope Prize Scholarships in Chemistry, each of the annual value of about £30. For particulars, see under **FACULTY OF SCIENCE**.

HOULDSWORTH SCHOLARSHIP. (Open Oct. 1914.)

This Scholarship, founded by the Houldsworth Trustees, for the purpose of promoting Research in Pharmacology in the Department of Materia Medica in the University, is of the annual value of about £49, and tenable for one year, with power to re-elect for a second, or even a third year, if good work is being done by the Scholar. It is awarded to a Graduate in, or Student of Medicine of the University, after such examination, competitive or otherwise, as may be deemed necessary. The Scholar must engage in research work in the Materia Medica Department, and assist the Professor as he may require. Names to be entered with the Dean of the Faculty of Medicine, on or before 20th September. For Deed of Foundation, see p. 421 of CALENDAR for 1897-98.

1910, JAMES A. GUNN, M.A., D.Sc., M.D.

LECKIE-MACTIER FELLOWSHIP.

The Leckie-Mactier Fellowship, of the annual value of about £86, is awarded to Bachelors of Medicine of not more than three years' standing, and is tenable for three years. The examinations comprise written reports and commentaries on medical, surgical, and gynecological cases in the University Wards in the Royal Infirmary, and written examinations in Midwifery, Medical Jurisprudence, and Public Health; also oral examinations in Medicine, Surgery, Midwifery, Medical Jurisprudence, and Public Health. The holder shall report every six months to the Dean where and how he is engaged in the study or exercise of his profession, and before the expiry of his tenure, must transmit to, and, if required, read publicly in the presence of the Medical Faculty, a communication embodying the result of original observation or historical research in some department of medicine. Open in 1916: names to be entered with the Dean of the Faculty of Medicine, on or before 15th October. See Deed of Foundation at p. 365 of CALENDAR for 1880-81.

1913, WALTER QUARRY WOOD, M.B., Ch.B.

M'COSH. See Bursaries.

M'CUNN MEDICAL RESEARCH SCHOLARSHIPS.

(Open Oct. 1914.)

Four Scholarships, each of £100, and tenable for one year, but which may be renewed for a second year, if the Trustees deem this expedient, are open to all Graduates of Medicine of the Universities of Edinburgh, Glasgow, Aberdeen, and St Andrews, of not more than two years' standing. The Subjects of Examination are:—Group A, Medicine, Surgery, Pathology, and Bacteriology; Group B, Therapeutics, Public Health, Physiology, and Physiological Chemistry. The Scholarships shall be awarded in alternate years in Groups A and B, for the encouragement of original research in one or more of the subjects of Examination. A candidate must be nominated by a Professor or Lecturer, or by a Teacher in Scotland, recognised by a Scottish University, for the purpose of Graduation in Medicine.

Applications and nominations must be made on forms supplied by Messrs M'Innes, M'Kenzie, and Lochhead, Secretaries to M'Cunn's Trustees, 7 Gilmour Street, Paisley, and must be lodged with them on or before 1st September. The nominated candidates shall be examined in the month of October annually in the subjects in one of Groups A or B, as the case may be, and the tenure of the Scholarships shall date from 1st November following. Due notice of the time and place of the Examination will be given by advertisements in the *Scotsman* and *Glasgow Herald*, or in such form as the Trustees may direct.

The Scholar shall prosecute research in one or more of the subjects in which he has been examined, in such Institutions at home or abroad, as may be approved by the Trustees. The Scholarships shall be payable half-yearly in advance. Before receiving payment of the second instalment, the Scholars shall transmit to the Secretaries to the Trustees a satisfactory report of work done, or in progress, and a satisfactory certificate from the authority under whose supervision they are working. If not satisfied with the Scholar's progress or conduct, the Trustees may suspend or withhold payment of any second or subsequent instalment. The Scholarships shall not be held along with any other Scholarship or position of emolument, except in study or research, and with the written sanction of the Trustees, and the Scholars shall ordinarily be expected to devote their whole time to subjects of research. Each Scholar in any work or communication to any Medical or Scientific Journal or Society, published during his tenure of a Scholarship, or as the result of researches performed during that time, but published later, shall use the words after his name and titles, "M'Cunn Scholar."

MACKAY SMITH SCHOLARSHIP IN CHEMISTRY.

(Open July 1916.)

(See under **Faculty of Science.**)

MORAY (EARL OF) ENDOWMENT FOR THE PROMOTION OF ORIGINAL RESEARCH.

(See under **Faculty of Arts.**)

MOUAT SCHOLARSHIP IN THE PRACTICE OF PHYSIC.

(Open July 1915.)

This Scholarship, of the value of about £58 (partly in money and partly in the form of a bronze medallion), is awarded annually at the Graduation Ceremonial in Medicine, to the graduate in Medicine who shall have taken the highest place in the competitive Examinations in the Class of Practice of Physic (Medicine) in this University, and in the Oral and Written Examinations in that subject in the Final Examination.

The Scholar shall be bound during his year of tenure to pursue the study of Medicine either as resident in an Infirmary or Hospital, or in the University of Edinburgh, or other University or Medical School at home or abroad, and to present, at the close of such year, to the Professor of Practice of Physic, or to the Senatus Academicus, a Report of the work

he has done in such Infirmary, Hospital, University, or Medical School. The money part of the Scholarship will only be paid on the Senatus receiving a certificate from the Dean of the Faculty that the conditions of the Scholarship have been duly fulfilled.

1914, RALPH C. L. BATCHELOR, M.A., M.B., Ch.B.

MURCHISON MEMORIAL SCHOLARSHIP.

(Open June 1915, in Edinburgh.)

This Scholarship, of the value of £21, and tenable for one year, is awarded in alternate years in London and Edinburgh, for proficiency in Clinical Medicine. Candidates must be registered Medical Students who, subsequently to the date of passing their Professional Examination in Anatomy and Physiology for a Medical qualification, have studied for a period of not less than two and a half, and not more than five, years at a Medical School in London recognised by the Royal College of Physicians, or at the University of Edinburgh, including Medical Classes recognised by the University, whether holding a Medical qualification or not. The competition in 1915 will be held in Edinburgh.

SCOTT (JAMES) SCHOLARSHIP. (Open July 1915.)

This Scholarship, founded by Mrs Mary Ann Scott or Thomson of Hawick, of the value of about £34, is awarded annually at the Graduation Ceremonial in Medicine in July, for proficiency in Midwifery and Gynecology, as evidenced in (1) the Class Examinations in Midwifery and Gynecology; (2) the records of cases taken by the candidate in the Royal Maternity and Simpson Memorial Hospital; and (3) the Final Examination in Midwifery and Gynecology for the degrees of M.B. and Ch.B. The Scholarship is for one year, but may, in special circumstances, be continued for another year. See Deed of Foundation, p. 410 of CALENDAR for 1883-84.

1914, ANDREAS B. THERON, M.B., Ch.B.

SIBBALD MEDICAL SCHOLARSHIP.

This Scholarship is of the annual value of £40. *First*, The Scholarship is bestowed on, and held by, a Student in the Faculty of Medicine in the University of Edinburgh, *who does not hold any other Scholarship or Bursary*, and is tenable for three years. During each year the Scholar must complete an *Annus Medicus* required from candidates for the degree of Bachelor of Medicine. *Second*, It is bestowed upon the Student obtaining the highest place by Competitive Examination, and is open to all candidates who have not previously been Students of Medicine in any other School or University, and who have attended Medical Classes in the University of Edinburgh, for *not less than one Winter and one Summer Session*, and for *not more than one Winter and two Summer Sessions*. The Competitive Examination is in Chemistry, Botany, Natural History, and Physics, and is conducted in such manner as the Senatus Academicus may, in concurrence with the Trustees,

prescribe. The next competition may take place in October 1915. Application to be made to Messrs Mackenzie, Innes, & Logan, W.S., 25 Melville Street, Edinburgh.

1912, JAMES MILNE.

STARK SCHOLARSHIP IN CLINICAL MEDICINE.

This Scholarship, of £100, less expenses, and tenable for one year, is for the encouragement of the study of Clinical Medicine. It is open to competition among all matriculated Students of the University who are or have been in attendance at the University Class of Clinical Medicine, and to Bachelors of Medicine of the University of not more than eighteen months' standing who have attended this class. It is open every second year alternately with the competition in Edinburgh for the Murchison Memorial Scholarship. The Examination, oral and in writing, shall include (a) Examination of Patients; (b) Questions on Therapeutics and Pathology; (c) Examination of Specimens. Each holder of the Scholarship shall be required to devote his time in the wards of the Professors of Clinical Medicine to original investigation or other work directly connected with Clinical Medicine; to report his proceedings every three months to the Professors of Clinical Medicine; and, within a reasonable time after the expiry of his tenure of the Scholarship, to present to the Faculty of Medicine a written statement of the results of his investigations or other work. It cannot be held along with any other Fellowship, Scholarship, or Bursary in a Scottish University. The next competition will take place in June 1916. See Deed of Foundation at p. 427 of CALENDAR for 1884-85.

1912, WILLIAM DOUGLAS DENTON SMALL, M.B., Ch.B.

SWINEY LECTURESHIP ON GEOLOGY.

See **Faculty of Science.**

SYME SURGICAL FELLOWSHIP. (Open July 1915.)

This Fellowship, of the annual value of about £134, and tenable for two years, is open to award to the Bachelor of Medicine and Master in Surgery, or Bachelor of Medicine and Bachelor of Surgery, of not more than three years' standing, who, in the opinion of the Examiners, has passed a creditable examination for these degrees, for the best Thesis on a Surgical subject giving evidence of original research, or practical talent, whether such Thesis be given in for Graduation or otherwise. The next award may be at the Graduation Ceremonial in July 1915; and competing Theses must be lodged with the Dean of the Faculty of Medicine not later than 31st March.

THOMSON SCHOLARSHIP. (Open Oct. 1914.)

The Thomson Scholarship, £40 a year, tenable for four years, is open to matriculated students commencing their first Winter Session in Medicine. The examination is in Botany, Zoology, and Elementary Mechanics. The Scholarship is awarded to the candidate who obtains the highest number of marks in the examination. The Trustees, however, reserve power to themselves to withhold the appointment, should none of the candidates obtain a sufficiently high percentage of the marks in the examination. Candidates

must send in their names to the agents for the Trust, before the first day of October in the year in which there is a competition for the Scholarship. Students of the name of Thomson or Traquair, or those who are natives of the town or county of Dumfries, or of the city of Edinburgh, have a preference. The next appointment may be made in October 1914. For further particulars, application to be made to Messrs Traquair, Dickson, & Maclaren, W.S., 11 Hill Street, Edinburgh.

1910, JAMES MONTAGUE SMITH.

VANS DUNLOP SCHOLARSHIPS.

There are eight Scholarships, each of £100 a year, tenable for three years. Not more than one at a time can be held by the same person. The successful candidates for each of these Scholarships will be required to continue their medical studies in this University during their tenure of their Scholarships, and to graduate as M.B. and Ch.B. In the event of a Vans Dunlop Scholar, whose Scholarship has been awarded at the beginning of the fourth or fifth Winter Session, desiring to interrupt his tenure by accepting a Residency in the Royal Infirmary, or other approved Hospital, he must make application to the Faculty for permission to do so, and, if they think proper to grant it, they will recommend the Senatus to reinstate him as a scholar at the close of his Hospital service. See Excerpt from Will of Dr Vans Dunlop, p. 380 of CALENDAR for 1880-81.

Preliminary.

This Scholarship is awarded to the Candidate who, at either the March or the preceding October Medical Preliminary Examination, has obtained the highest number of marks in the subjects required to enable him to appear for a Professional Examination, provided (1) that he has not already passed the said Preliminary Examination; and (2) that, in the event of his having passed an equivalent examination and presenting himself for the Medical Preliminary Examination, he shall waive all right to admission to the Faculty of Medicine except through the ordinary Medical Preliminary Examination of this University. The next award may be made in March 1916.

1913, ANDREW PEFFERS
THOMAS SKENE, M.A. } equal.

Chemistry and Physics.

This Scholarship is awarded at the end of the First Winter of Medical Study, to the Student who, after having attended for the first time within the University a Systematic Course of Lectures on each of the subjects of Chemistry and Physics, not having previously attended any course in Chemistry or Physics which qualifies for Degrees in Medicine or for a Licence in Medicine or Surgery, shall obtain the highest number of marks in an Examination in these subjects, specially conducted for the purpose. The next award may be made in March 1917.

1914, ROBERT WALLACE.

Botany and Zoology.

This Scholarship is awarded at the end of the First Summer Session of Medical Study, to the Student who, after having attended for the first time within this University a Systematic Course of Lectures on each of the

subjects of Botany and Zoology, not having previously attended any course in Botany or Zoology which qualifies for Degrees in Medicine or for a Licence in Medicine or Surgery, shall obtain the highest number of marks in an Examination in these subjects specially conducted for the purpose. Names to be entered with the Dean of the Faculty of Medicine, on or before 15th June.

1914, ERIC H. GOODFELLOW.

Physiology. (Open Oct. 1914.)

This Scholarship is awarded at the beginning of the Third Winter of Medical Study, to the Student who, after having attended within the University for the first time a Systematic Course in the subject of Physiology, not having previously attended a course in Physiology which qualifies for Degrees in Medicine or for a Licence in Medicine or Surgery, shall obtain the highest number of marks in an Examination in that subject specially conducted for the purpose. The next award may be made in October 1914. Names to be entered with the Dean of the Faculty of Medicine on or before 22nd September.

1911, PETER MACCALLUM, M.A., M.Sc.

Anatomy. (Open Oct. 1914.)

This Scholarship is awarded in October of the Third Winter Session of Medical Study, to the Student who, after having attended within the University the Systematic and Practical Instruction in the subject of Anatomy, and having passed the Second Professional Examination, shall obtain the highest number of marks in an Examination in that subject specially conducted for the purpose. The next award may be made in October 1914. Names to be entered with the Dean of the Faculty of Medicine on or before 22nd September.

1912, JAMES J. HEALY.

Pathology and Surgery. (Open March 1915.)

This Scholarship is awarded to the Student at the end of the third year of Medical Study, who, after having attended within the University the Systematic and Practical Courses in Pathology and the Systematic Courses in Surgery, shall obtain the highest number of marks in an Examination in these subjects specially conducted for the purpose. The successful candidate will be required to continue his studies, and graduate as M.B. and Ch.B. in this University, during the second year of his tenure of the Scholarship, and to devote himself during the remainder of his tenure to Original Investigation in one or other of the Research Laboratories in the Faculty of Medicine. The next award may be made in March 1915. Names to be entered with the Dean of the Faculty of Medicine on or before 1st March.

1912, ROBERT G. BANNERMAN, M.A.

Materia Medica and Medicine. (Open March 1915.)

This Scholarship is awarded at the end of the Fourth Winter Session of Medical Study, to the Student who, after having attended within the University a Systematic Course in the subjects of Materia Medica (including

Pharmacology) and Medicine, shall obtain the highest number of marks in an Examination in these subjects specially conducted for the purpose. The successful candidate will be required to continue his studies in this University during the first year of his tenure of the Scholarship, and at the end of the first year to graduate as M.B. and Ch.B. ; and during the remainder of his tenure of the Scholarship to devote himself to Original Investigation in one or other of the Research Laboratories in the Faculty of Medicine. The next award may be made in March 1915. Names to be entered with the Dean of the Faculty of Medicine on or before 1st March.

1912, GOMER WILLIAMS.

Prox. Acc., THOMAS PULLAR, M.A.

Forensic Medicine, Public Health, and Midwifery.

(Open Oct. 1914.)

This Scholarship is awarded at the beginning of the Fifth Winter Session of Medical Study, to the Student who, after having attended within the University the Systematic Courses in Forensic Medicine, Public Health, and Midwifery, and having passed the Third Professional Examination, shall obtain the highest number of marks in an Examination in these subjects specially conducted for the purpose. The successful candidate will be required to continue his studies, and graduate as M.B. and Ch.B. in this University during the first year of his tenure of the Scholarship, and to devote himself during the remainder of his tenure to Original Investigation in one or other of the Research Laboratories in the Faculty of Medicine. The next award may be made in October 1914. Names to be entered with the Dean of the Faculty of Medicine on or before 22nd September.

1911, SYDNEY ALFRED SMITH.

Prox. Acc., GEORGE A. C. DOUGLAS.

Pathological Bacteriology. (May be open in 1915.)

Regulations will be issued early in the Session.

WARDLAW (D. R) MEMORIAL BEQUEST.

(See under **Faculty of Arts**).

II. Bursaries in the Faculty of Medicine.

(ARRANGED ALPHABETICALLY.)

Note.—The values of Bursaries are stated *approximately*.

For Conditions of Tenure, etc., see page 592.

ABERCROMBY. (Open Oct. 1914.)

Founded in 1864, by Dr Abercromby, Cape Town. One Bursary : £20 for 1 year. Patrons, the Governors of George Heriot's Trust.

The Bursary is open annually, by competition, in the event of more than one candidate coming forward, to Students who have been educated in George Heriot's School, and have finished their course as Heriot Bursars, to aid them in further prosecution of their studies for any of the learned professions: students in the Faculty of Medicine to be always preferred. Candidates must apply to the Clerk of the Heriot Trust, 20 York Place, Edinburgh, before 1st September.

1913, E. G. W. GILCHRIST.

ANDERSON.

Founded in 1882, by Mrs Ronald of Liverpool. Two Bursaries: each about £40 a year.

The Bursaries will come into operation on the death of an annuitant. For Deed of Foundation, see CALENDAR 1882-83, p. 396.

ARCHIBALD OR M'GUFFIE. (May be open 1915.)

Founded in 1914 by the Rev. George M'Guffie.

A preference will be given to students bearing the name of Archibald or M'Guffie, who have been born in one of the parishes of Dollar, Tillicoultry, or Whithorn, or educated in any of the schools of these parishes; whom failing, to any youths born in any of the said parishes or educated in any of the said schools, although not bearing either of the said names. See Deed of Foundation, p. 799 of CALENDAR for 1914-15. Detailed Regulations will be issued early in the Session.

CARLYLE (JOHN AITKEN). (Open March 1915.)

Founded in 1878, by John Aitken Carlyle. Two Bursaries: each £29, 7s. for 1 year.

One Bursary is awarded at the end of each Winter Session to a first year Student, for proficiency shown in the ordinary class examinations in Junior Anatomy (full Winter Session) and Chemistry; the other to a second year Student, for proficiency shown in the ordinary class examinations in Anatomy (full Winter Course of two consecutive half-sessions) and Physiology. See CALENDAR for 1879-80, p. 350.

1914, (Senior), ROBERT WALKER; (Junior), H. R. GOLDBERG.

CRICHTON. (Open 1914-15—see below.)

Founded in 1890, by Major R. Orr Crichton of Lynn, M.D. Fourteen Bursaries: each £50 a year, for 4 years.

Two of these Bursaries will be open, one in Autumn and one in Spring—to Students entering the Faculty of Medicine of this University, who have been born in Scotland. The subjects of Examination are Latin, Greek, French, German, Mathematics, Logic, and Moral Philosophy. Each

Bursary is tenable for four years, provided the Bursar continues to be a Student of the Medical Faculty of this University. See Excerpt from Deed, p. 540 of CALENDAR for 1891-92, and Regulations, p. 749 of CALENDAR for 1895-96.

1910, PATRICK C. MACRAE, M.A., ANDREW W. FORREST.

1911, DALLAS S. FALCONER, GEORGE M. SCOTT, DONALD A. MACRAE.

1912, N. A. DOGGART, J. L. HILL, M.A., D. T. M'AINSH.

1913, G. W. DUNLOP, M.A., LACHLAN MACKINNON, DON. H. CAMERON, JOHN LEARMONT, WM. G. ROBSON, WM. ANDERSON, JAMES D. MILL.

GRIERSON. (Open 1914-15—see below.)

Founded in 1873, by Mr Grierson of Ogscastle's Trustees. Five Bursaries: three of £20, and two of £10 a year (see below).

Candidates from the parishes of Crawford or Leadhills, about to commence their Medical Curriculum, who have passed in the University of Edinburgh a satisfactory examination in the preliminary subjects required by the Regulations for Graduation in Medicine, who have been diligent students, and who require pecuniary aid to enable them to pursue their studies, have a preference. In the case of more candidates than one, the Bursary will be awarded to the best qualified, on examination in the subjects above referred to.

Failing the appointment of preferential candidates, the Bursaries will be tenable for periods of one year only, in manner following, viz.:—One (£20) will be awarded to the student who, not having completed his twenty-first year, shall pass the best examination of the year in the subjects of the Preliminary Examination, provided (1) that he has not already passed the said Preliminary Examination; and (2) that, in the event of his having passed an equivalent examination and presenting himself for the Medical Preliminary Examination, he shall waive all right to admission to the Faculty of Medicine except through the ordinary Medical Preliminary Examination of this University. One (£20) will be awarded by competitive examination to the student beginning the Second Winter Session, who, having already passed the Preliminary Examination required for Graduation in Medicine, shall pass the best examination in the subjects of Chemistry, Botany, Natural History, and Physics. One (£20) will be awarded by competitive examination to the student beginning the Third Winter Session who, having already passed the First Professional Examination, shall pass the best examination in the subjects of Anatomy and Physiology. One (£10) will be awarded by competitive examination in Pathology, at the beginning of the Fourth Winter Session. One (£10) will be awarded by competitive examination in Materia Medica, at the beginning of the Fifth Winter Session. Open in 1914-15, three Bursaries of £20, and one (Pathology) of £10. Competitions for the Bursary in Preliminary subjects will take place in September 1914 and March 1915. The competition for the Bursaries in the subjects of the First Professional, Second Professional, and Pathology will take place in October 1914, on

dates to be afterwards announced. Names of candidates to be entered on or before 22nd September.

1913 (First Professional Subjects), JOSEPH SCHNEIDER ; (Second Professional Subjects), JOHN BENNET ; (Materia Medica), HUGH P. CAITHNESS.

1914 (Preliminary), N. W. JOHNSTON.

GRIGOR.

Founded in 1905, by Dr John Grigor, Nairn. One Bursary: £30 a year, for 5 years. Patrons, the Trustees of Dr Grigor.

The Bursary is to be held by a young man who is a native of the county of Nairn, or who, at the date of application, is resident in the county of Nairn, and has for five years previously resided in said county, and whose parents are unable to defray the cost of a Medical Education for him, to enable such young man to pursue his Medical Studies at Edinburgh University. Applicants must not be under the age of seventeen. Apply to A. Cumming, solicitor, Nairn, Clerk to the Trustees, on or before 31st August, from whom copies of the regulations may be had.

HERIOT (for Women). (Open Sept. 1914.)

(For Heriot Foundation, see under **Faculty of Arts.**)

One Bursary (or more): £30 a year, for 3 years. Patrons, the Heriot Trust.

Candidates must sit an examination in subjects of the Arts Preliminary. For further particulars apply to the Clerk of George Heriot's Trust, 20 York Place, Edinburgh, before 1st September.

1912, JOAN K. ROSE.

1913, MARION E. REID.

M'COSH. (Open July 1915.)

Founded in 1897, by Dr John M'Cosh. Two Bursaries—(1) **The M'Cosh Graduate's Bursary**: £213 for 1 year ; **The M'Cosh Medical Bursary**: £15 for 1 year.

The holder during his tenure is required to prosecute Study or Research in a Medical School or Medical Schools of Europe, it being in the discretion of the Faculty of Medicine to award both Bursaries to the same person. Applications for the Bursaries must be made to the Dean of the Faculty of Medicine not later than 3rd July, and must be accompanied by a statement of the name or names of the Medical School or schools intended to be visited, of the time proposed to be spent at each school, and of the nature of the study or special work proposed to be engaged in. Bachelors of Medicine and Bachelors of Surgery are eligible for appointment during one year after graduation. In considering the claims of candidates, the Faculty of Medicine will take into account not only their professional attainments and ability, but also the knowledge they possess of foreign languages ; and it shall be in the option of the Faculty to satisfy themselves with regard to this knowledge by the examination of candidates.

Candidates who already hold a Bursary, Scholarship, or Fellowship will not be disqualified, except in cases where the Bursary, Scholarship, or Fellowship requires, as a condition of tenure, the prosecution of Original Research, or some other condition which may be interfered with by the holding of a McCosh Bursary. Holders of the Bursaries will be required at the end of each three months to transmit to the Dean of the Faculty of Medicine a report of the manner in which they are pursuing their studies, or of the progress being made in any special work in which they are engaged.

1914, ROBERT G. BANNERMAN, M.A., M.B., Ch.B.

MACKENZIE. (Open March 1915.)

Founded in 1878, by William Mackenzie. Four Bursaries: each £9, 15s., for 1 year.

The Bursaries are open to Students of the Anatomy Classes, of any year, who shall display the greatest industry and skill in Practical Anatomy during the Winter Session. See CALENDAR for 1879-80, p. 353.

1914, L. G. ALLAN, ALFRED BADENOCH, C. G. TERRELL,
ROBERT WALKER.

MACKIE. (Open Oct. 1914.)

Founded in 1873, by Trustees of Dr Mackie, Leith. Two Bursaries: each £29, 6s. 6d. a year, for 2 years.

These Bursaries are awarded to Students of Medicine of the University, one being open to Students who have completed their first *annus medicus*, and the other to Students who have completed their second *annus medicus*, and who are, in the opinion of the Faculty of Medicine, in such pecuniary circumstances as to require assistance. In the event of no appointment having been made to either Bursary on any occasion when it is vacant, the Senatus may, on the recommendation of the Faculty of Medicine, appoint any candidate to the vacant Bursary who has completed either his first or his second *annus medicus* and who otherwise satisfies the requirements of tenure. Applications to be made to the Dean of the Faculty of Medicine, on or before 22nd September.

1912 (*Second Year*), JOHN M. PRINGLE, A. M. PATERSON;
(*Third Year*), JOHN RODGER.

THOMSON. (Open Sept. 1914.)

Founded in 1878, by Dr Andrew Thomson. Four Bursaries: each £25 a year, for 4 years. Patrons, Dr Thomson's Trustees.

One Bursary is awarded annually at the Preliminary Examination held in Autumn, to the candidate who, being about to commence his Curriculum, takes the highest place in the Medical Preliminary Examination: provided (1) that he has not already passed the said Preliminary Examination; and (2) that, in the event of his having passed an equivalent examination and presenting himself for the Medical Preliminary Examination, he shall waive all right to admission to the Faculty of Medicine except through

the ordinary Medical Preliminary Examination of this University. Students of the name of Thomson or Traquair, or those who are natives of the town or county of Dumfries, or of the city of Edinburgh, have a preference. Candidates must enter for the Preliminary Examination in Autumn; and they must intimate their names to Messrs Traquair, Dickson & Maclaren, W.S., 11 Hill Street, Edinburgh, the agents for the Trust (from whom further particulars may be obtained), not later than 25th August.

1910, WILLIAM T. BUCHAN, M.A.; 1911, W. N. GREER;
1912, JAMES THOMPSON; 1913, ALEXANDER A. THOMSON.

WHITESIDE BRUCE. (Open July 1915.)

Founded in 1912, by John Bruce, M.B., C.M., of Kirkwall. One Bursary: about £44, for 1 year.

This Bursary will be awarded in July of each year to the student of Medicine who has commenced the study of Medicine in the Summer or Winter Session of the preceding year, and who has obtained the highest number of marks in the class examinations in Chemistry, Physics, Botany, and Zoology, provided that these classes have been attended in the University, and attendance thereon has not extended over a longer period than a Winter and a Summer Session.

1914, HENRY J. PARISH.

WOOD.

Founded in 1895, by Dr Alexander Wood. One Bursary: £60 a year, for 3 years. Patrons, the Royal College of Physicians, Edinburgh.

The Bursary, which is tenable at the Edinburgh Medical School, either intra or extra-mural, is open to all students, male or female, who, within the previous twelve months, have passed the subjects of the Preliminary Medical Examination qualifying for registration as medical students. The subjects of examination are Latin, Greek, Mathematics, and English, in which high proficiency must be attained. The next Examination for the Bursary will be held in October 1917. Apply to the Secretary, Royal College of Physicians.

1910, HENRY J. C. GIBSON.

The following ARTS BURSARIES are also tenable in the Faculty of Medicine:—

Allan.
Baxter of Balgavies.
Border Counties.
Chrystie.
Fraser (Thomas).
Glenbuck.
Grant.
Heriot.

Jamieson.
Maclaurin.
Maule.
Morayshire Club.
Peeblesshire.
Renton.
Sibbald.
Strang Steel.

III. Prizes and Medals in the Faculty of Medicine.

(ARRANGED ALPHABETICALLY.)

Note.—The values are stated *approximately*: the accuracy of the figures is not guaranteed.

ANDERSON HENRY PRIZE.

The Prize was founded by Isaac Anderson Henry of Woodend, and is of the value of about £30. It is awarded for the best and approved essay on a botanical subject proposed by the Professor of Botany, the Curator of the Royal Botanic Garden, and the President of the Botanical Society of Edinburgh, for competition to students in the Class of Botany in the University of Edinburgh, during any of the three years preceding the date of the award. The next award may be made in July 1916.

ANNANDALE GOLD MEDAL IN CLINICAL SURGERY.

(Open July 1915.)

This Medal will be awarded annually at the Summer Graduation Ceremonial in Medicine. It shall be conferred on the student who shall be adjudged by the Professor of Clinical Surgery, and his co-examiners in Clinical Surgery, to be the most distinguished candidate in the Department of Clinical Surgery for the Degrees of Bachelor of Medicine and Bachelor of Surgery, who, having attended the necessary qualifying course in Clinical Surgery, graduates, or is entitled to graduate, at the above-mentioned Ceremonial.

1914, IAN KEITH-FALCONER MACLEOD, M.B., Ch.B.

ARNOTT (NEIL) PRIZE FOR EXPERIMENTAL PHYSICS.

(Open Oct. 1914.)

This Prize, of the value of about £42, presented to the University by Dr Neil Arnott of London, is awarded annually in October to the candidate who shall pass with the greatest distinction the Ordinary Examination in Natural Philosophy for the Degree of M.A., with such additional Examination in Experimental Physics as the Examiners may require. Candidates must have been Students of Medicine of this University during either a Summer or a Winter Session; and the successful candidate must continue to be a Student of Medicine at this University during the next Winter Session, failing which, the Prize will be forfeited and assigned to the competitor next in merit. No student can appear for examination after the completion of his third *annus medicus*; and no candidate shall be allowed to offer himself more than once.

In the event of a competitor, qualified as above, not coming forward, the Prize will be awarded to a candidate for a Degree in Arts who shall pass with most distinction the ordinary examination in Natural Philosophy. Names of candidates to be entered at the Matriculation Office, on or before 22nd September. See Deed of Foundation at p. 274 of CALENDAR for 1870-71.

1913, WILLIAM D. MACKINNON.

BEANEY PRIZE. (Open July 1915.)

This Prize, of about £39, was founded in 1878 by James George Beane, Esq., of Melbourne. It is awarded at the Graduation Ceremonial in Medicine to the Graduate in Medicine and Surgery of the year who, having attended within the University courses on Anatomy, Surgery, and Clinical Surgery qualifying for Graduation, obtains the highest number of marks during his examinations in these subjects for the Degrees of Bachelor of Medicine and Bachelor of Surgery. The Senatus has the power of withholding the Prize in the event of no Student passing the above examinations with sufficient merit. See Deed of Foundation at p. 371 of CALENDAR for 1878-9.

1914, PETER MACCALLUM, M.A., M.Sc., M.B., Ch.B.

CAMERON PRIZE. (May be awarded in 1915.)

This Prize was founded in 1878 by the late Dr Andrew Robertson Cameron, of Richmond, New South Wales, with a sum of £2000. The regulations were remodelled by the Educational Endowments (Scotland) Commission, and the annual proceeds, which, after defraying the necessary expenses, amount to over £100, may be awarded annually to a person who, in the course of the five years immediately preceding, has made any highly important and valuable addition to Practical Therapeutics. It shall be in the power of the Senatus to require the person to whom the Prize is to be awarded, as a condition of his receiving it, to deliver a lecture or course of lectures on the addition to Practical Therapeutics so made by him, or to publish an account of such addition in such manner as the Senatus may prescribe. The Prize will not be awarded if, in the opinion of the Senatus, no addition to Practical Therapeutics has been made within the said period of five years of sufficient importance and value to justify the awarding of the Prize. The Prize is awarded at the Graduation Ceremonial in July. See Remodelled Regulations, p. 497 of CALENDAR for 1888-89.

1889, MONSIEUR PASTEUR; 1890, SIR JOSEPH LISTER, Bart.; 1891, PROFESSOR DAVID FERRIER; 1893, PROFESSOR V. A. H. HORSLEY; 1895, PROFESSOR BEHRING; 1896, PROFESSOR MACEWEN; 1897, PROFESSOR THOMAS R. FRASER; 1898, DR SYDNEY MONCKTON COPEMAN; 1899, MAJOR DAVID BRUCE, R.A.M.C.; 1900, W. M. HAFKENE, C.I.E.; 1901, PATRICK MANSON, C.M.G.; 1902, MAJOR RONALD ROSS, C.B.; 1904, PROFESSOR NIELS R. FINSSEN; 1910, PROFESSOR AUGUST BIER; 1911, DR SIMON FLEXNER, New York; 1914, PROFESSOR PAUL EHRLICH.

CHIENE MEDAL IN SURGERY. (Open July 1915.)

This Medal, together with a small sum of money, will be awarded annually to the graduate who, in the opinion of the Examiners, passes the best examination for the degree of Ch.M., the thesis not to be considered part of the examination. The award will be made only when two or more candidates present themselves for the examination in any one year.

CONAN DOYLE PRIZE. (Open July 1915.)

The Conan Doyle Prize, of about £39, is awarded annually at the Graduation Ceremonial to the most distinguished Graduate (M.B., Ch.B.) from South Africa, as determined by the marks obtained at the various Professional Examinations. A minimum residence of ten years in South Africa is required to qualify for this Prize. The Prizeman shall be free to receive any other Prize, Scholarship, or Fellowship which may be awarded to him.

1914, CHARLES P. M. JOUBERT, M.B. Ch.B.

CUNNINGHAM MEMORIAL MEDAL IN ANATOMY.

(Open July 1915.)

The Medal and Prize, consisting of the free annual income of the fund, shall be awarded at the Medical Graduation Ceremonial in July of each year to the student who, having passed in Anatomy of the Second Professional Examination in Spring or in Summer of that year, and who has for five consecutive terms immediately preceding the date of passing been a member of the University Class of Practical Anatomy, shall be considered by the Faculty of Medicine to be the most distinguished student of his year in the subject of Anatomy.

1914, ROBERT WALKER.

DOBBIE SMITH PRIZE IN BOTANY.

This Prize, which consists of a Gold Medal, is open to competition each alternate year to all Matriculated Students of the year of the award, for an Essay on a Botanical subject. The subject of the next competition is an original investigation "On the Structure, Development, and Life History of any British Flowering Plant"; and the memoir is to be accompanied by a series of illustrative specimens. Competing Essays to be sent to the Dean of the Faculty of Medicine, on or before 15th June 1916.

ELLIS PRIZE IN PHYSIOLOGY.

This Prize, bequeathed by the late Daniel Ellis, Esq., to the Principal and Faculty of Medicine of the University of Edinburgh, consists of about £100. It is awarded for the best Essay or Treatise on some subject of Animal or Vegetable Physiology proposed by the Faculty for competition to Students or Graduates of not more than five years' standing. The next competition may be in 1916.

1913, WILLIAM EWART BULLOCK, B.Sc., M.D.

GILFILLAN MEMORIAL PRIZE. (Open July 1915.)

The capital of this Prize, £217, 16s., was subscribed by women students, and the balance, £132, 4s., by Mr Samuel Gilfillan, in memory of the late Miss Dorothy Gilfillan, M.B., Ch.B. The Prize is of the value of about £13, and is awarded annually at the Graduation Ceremonial in July, to the most distinguished woman student at the Final Examination for the Degrees of M.B., Ch.B.

1914, GERTRUDE M. A. HERZFELD, M.B., Ch.B.

GRAY ESSAY PRIZES. See **Faculty of Arts.****GUNNING VICTORIA JUBILEE PRIZES.**

(Four Prizes, open July 1915.)

Dr Gunning, of Edinburgh and Rio de Janeiro, has founded Twelve Post-Graduation Prizes of the value of £50 each, viz.:—(1) The Monro prize for Anatomy; (2) The Bell prize for Physiology; (3) The Edward Forbes prize for Zoology, etc.; (4) The Hutton Balfour prize for Botany; (5) The Joseph Black prize for Chemistry; (6) The Christison prize for Materia Medica; (7) The Lister prize for Surgery; (8) The Gregory prize for Practice of Physic; (9) The John Thomson prize for Pathology; (10) The Simpson prize for Obstetrics; (11) The Alison prize for Forensic Medicine; (12) For Public Health. Candidates must be either Bachelors of Medicine or Bachelors of Science of this University, of not more than three years' standing. The prizes will be awarded with the approval of the Senatus for (1st) either (i) Competitive Essays written specially for the prizes, or (ii) Theses submitted for Graduation; or (2nd) for original research conducted under supervision of the Professor in the department in which the prize is awarded. Four prizes will be awarded annually in the following rotation, viz.:—Botany, Anatomy, Medicine, Public Health, Zoology, Physiology, Pathology, Surgery, Chemistry, Materia Medica, Forensic Medicine, Obstetrics. (The first-named four prizes will be open in 1915.) Competitive Essays are required to be lodged with the Dean of the Faculty of Medicine on or before 31st March of the year in which each prize is to be awarded, and the successful competitors will be announced annually at the Graduation Ceremonial in Medicine.

1912, JOHN KOLBE MILNE DICKIE, M.D., Ch.B. (Anatomy).

1913, MARJORY MACNAUGHTON, B.Sc. (Physiology).

1914, SYDNEY ALFRED SMITH, M.D. (Forensic Medicine).

LORD RECTOR'S PRIZE. See **Faculty of Arts.****MILNER FOTHERGILL MEDAL IN THERAPEUTICS.**

(Open July 1915.)

This Medal, of the value of about £20, is awarded biennially. It is open for competition to Graduates in Medicine of the University, who have been members of the Class of Materia Medica in the University, for the best essay which shall include a description of original research made by the candidate on a Pharmacological or Therapeutic subject, preference being given to a subject relating to Dietetics. See Deed of Foundation, p. 542 of CALENDAR for 1891-92. The next award may be made at the Graduation Ceremonial in July 1915. Essays to be lodged with the Professor of Materia Medica, on or before 31st March 1915.

1913, JOHN GORDON SHARP, M.D., C.M.

PATTISON PRIZE IN CLINICAL SURGERY.

(Open July 1915.)

This Prize, of about £15, is awarded annually to the Student of the University Class of Clinical Surgery who shall write the best Report and

Commentary on cases treated in the University Surgical Wards during the Academic Year. Candidates are reminded that the permission of the Surgeon of the Ward must be obtained before any case under his charge is made use of, and that this permission does not authorise the publication of the case. The Essay to be lodged with the Dean of the Faculty of Medicine, on or before 15th June.

1914, ANDREW J. CAIRD, M.A. } equal.
WILLIAM GOLDIE, M.A. }

STRAITS SETTLEMENTS GOLD MEDAL.

(Open July 1915.)

A Gold Medal, subscribed for by former Scottish students resident in the Straits Settlements, will be awarded at the Graduation Ceremonial in July 1915. The Medal will be awarded to the writer of the best thesis on a tropical subject, lodged during the years 1913, 1914, and 1915.

1912, GEORGE CARMICHAEL LOW, M.A., M.D., Ch.B.

THESES GOLD MEDALS. (Awarded July 1915.)

Gold Medals, each of the value of £10, are awarded annually on the day of graduation to Doctors of Medicine whose theses are deemed worthy of that honour.

WELLCOME MEDALS. (Open July 1915.)

A Gold Medal and a sum of £10, and a Silver Medal and a sum of £5, will be open for competition annually. The competition shall be by essays upon a subject relating to the History of Medicine, and shall be open to students and graduates who have attended the University class of the History of Medicine, within a period of five years preceding the date of award. The subject of the essay for each year shall be fixed by the Lecturer, with the approval of the Faculty of Medicine, and shall be one admitting of original research in the History of Medicine. The prize essays shall become the property of the University, and may be published in such manner as the Faculty of Medicine shall deem expedient. Essays to be lodged with the Dean of the Faculty of Medicine, on a date to be afterwards announced.

1914 (*Gold Medal*), JOSEPH SCHNEIDER.
(*Silver Medal*), WILLIAM EVERETT.

WIGHTMAN PRIZE IN CLINICAL MEDICINE.

(Open July 1915.)

This Prize, of about £16, was founded by Mrs E. Wightman, in memory of her son, J. T. Wightman, M.B., C.M., and is annually awarded, at the close of the Summer Session, to a student attending the Class of Clinical Medicine, for the best Dissertation on any subject prescribed by the Faculty of Medicine, or for the best Report and Com-

mentary on cases which have, during the previous Winter and Summer Sessions, been treated in the University Clinical Wards in the Royal Infirmary. See Deed of Foundation at p. 348 of *CALENDAR* for 1876-77. The Prize will be awarded for the best Report and Commentary, as above. Candidates are reminded that the permission of the Physician of the Ward must be obtained before any case under his charge is made use of, and that this permission does not authorise the publication of the case. Essays must be lodged with the Dean of the Faculty of Medicine, on or before 15th June.

1914, ROBERT G. BANNERMAN, M.A., M.B., Ch.B.

WILSON (ROBERT) MEMORIAL PRIZE. (Open March 1915.)

This Prize was founded by John Wilson of South Bantaskine, in memory of his son, Robert Wilson, and is of the value of about £8, 10s. in money and a silver medal. It is annually awarded at the close of the Winter Session to the student in the Medical Chemistry Class who obtains the highest number of marks in class examinations. See Deed of Foundation at p. 351 of *CALENDAR* for 1876-77.

1914, ROBERT WALLACE.

REGULATIONS AS TO CANDIDATURE FOR, AND TENURE OF FELLOWSHIPS, SCHOLARSHIPS, BURSARIES, ETC.

Competitors for Fellowships, Scholarships, and Bursaries, excepting those awarded for the subjects of Preliminary Examination, must have studied the subjects of Examination at the University of Edinburgh. No Fellowship, Scholarship, or Bursary, with the exception of the Freeland Barbour Fellowship, Ettles and Murchison Scholarships, and Mackenzie Bursaries, can be held along with any other Fellowship, Scholarship, or Bursary.

All holders of undergraduate Fellowships, Scholarships, and Bursaries in the Faculty of Medicine must annually attend at least two of the classes necessary for the degrees of M.B. and Ch.B., and must present themselves for the several examinations necessary for these degrees at the proper periods in the curriculum.

Holders of Fellowships, Scholarships, or other pecuniary awards, implying original research on the part of the holder, are not allowed to assume any other office, but must devote their whole time to the research authorised by the Senatus.

Each Fellow, Scholar, Bursar, or Prizeman, when he applies to the Factor for payment, must produce a Certificate signed by the Dean, attesting his regular attendance on the proper classes, etc., or otherwise that he has fulfilled the conditions attached to the Foundation.

Certificates, in terms of this regulation, will be given to Bursars, by the *Dean of the Faculty of Medicine*, on and after 13th November 1914, and 16th May 1915. In applying to the Dean for the Certificate, Bursars must present their Class Cards for the Session, and also all Class Certificates and Honours Certificates obtained since the last payment. All holders of Research Fellowships and Scholarships must present certificates regarding their work, from the head of the Department in which it has been conducted. Payments are made by the University Factor, Sir Henry Cook, W.S., 61 Castle Street, Edinburgh, on and after 14th November, for the Martinmas payments, and on and after 18th May, for the Whitsunday payments,—between 10 and 3 o'clock.

N.B.—Bursars, Scholars, and Fellows who desire to resign should at once announce this to the Dean and to the Factor. They must apply to the Factor for the instalments due to them within three months after they have become payable, otherwise they will be regarded as having resigned.

DIPLOMA IN TROPICAL MEDICINE AND HYGIENE.

(D.T.M. & H.).

THE Diploma in Tropical Medicine and Hygiene was instituted in the year 1905.

The course of study may be taken wholly at the University, or, as the regulations indicate, certain of the classes may be taken with teachers who have been recognised by the University Court, or at a recognised school of Tropical Medicine.

Candidates who have been engaged in the treatment of Tropical Diseases in any tropical or sub-tropical country may be exempted from attendance on the course of Clinical Instruction in Tropical Diseases.

The courses may most conveniently be taken at the two periods of the year, October to December and April to June.

The examinations are held in December and June, and the Diploma is awarded to successful candidates at the graduation ceremonies at the close of the above sessions.

Any further information may be obtained from the Dean of the Faculty of Medicine, University of Edinburgh.

REGULATIONS FOR THE DIPLOMA.

1. The University shall grant a Diploma in Tropical Medicine and Hygiene to Graduates in Medicine and Surgery of the University, and to registered practitioners in Medicine who have resided abroad and acquired practical experience in Tropical Diseases, and who, on the recommendation of the Faculty of Medicine, receive the permission of the Senatus Academicus to become Candidates for the Diploma, and afterwards fulfil the regulations pertaining thereto.

2. No Candidate shall be admitted to examination for this Diploma until a period of at least six months has elapsed since the degrees in Medicine and Surgery had been obtained.

3. There shall be two periods of examination in each year, one in December and the other in June; and no Candidate shall be eligible who is not Matriculated for the year.

4. Before admission to examination, the Candidate must present evidence satisfactory to the Faculty of Medicine of having attended courses of instruction of not less than three months' duration in each of the following:—(1) Practical Bacteriology (with special relation to the pathogenic micro-organisms of tropical diseases and their cultivation, the preparation of culture media, and the examination of blood), (2) Diseases of Tropical Climates (including parasitic tropical diseases and poisoned weapons), and (3) Tropical Hygiene (including general and personal sanitation and practical laboratory work in the examination of water, food, and beverages, and in the application of disinfectants); of having attended, during at least one month, a practical course of instruction on the zoological characters and life-history of disease-carrying insects, disease-producing protozoa, and venomous animals; and of having attended, during a period of at least six months, a course of Clinical instruction in Tropical Diseases in a hospital or hospitals receiving patients suffering from these diseases, of which at least three months must be taken after graduation in Medicine and Surgery.

5. Provision shall be made in the University for instruction in the above subjects, but any two of them may be taken under Extra-Academical Teachers, recognised for the purpose by the University Court; and it shall also be competent for the Faculty of Medicine to exempt any Candidate from attendance on the last-mentioned course of instruction who has been engaged for a period of at least twelve months in the treatment of Tropical Diseases in any tropical or sub-tropical country.

6. Candidates shall also be required to produce certificates of proficiency in the making of post-mortem examinations, and in the preparing of reports on them.¹

¹ In Edinburgh, opportunities for fulfilling these conditions are best obtained during the Christmas, Spring, and Autumn vacations.

The following form of certificate is recommended:—

"I hereby certify that, in.....Mr.....has, under my supervision, made *post-mortem* examinations and prepared reports on them, during.....19....., and that he has acquired proficiency in the method of making *post-mortem* examinations, and in the preparing of reports on them.

.....
Pathologist."

7. No certificate of instruction shall be accepted which does not bear that the Candidate not only attended the course of instruction with regularity, but also performed the work of the course in a meritorious manner.

8. The examinations shall be written, oral, and practical, and shall be on the above subjects of instruction; and the Examiners shall be the Professors of Pathology, Bacteriology, Public Health, and Medicine, and other University Teachers of the subjects, together with the additional Examiners in Pathology, Public Health Laboratory Work, and the Professors of Clinical Medicine.

9. Candidates shall appear for all the subjects of examination on the first occasion of presenting themselves for examination, and any Candidates who fail to pass the entire examination within a period of twelve months after a first appearance, shall be required to reappear for all the subjects on again presenting themselves for examination.

10. If any Candidate fail to pass in any part or parts of the examination, it shall be competent for the Faculty of Medicine, on the recommendation of the Examiners, to require the Candidate again to attend any course or courses of instruction before being readmitted to examination.

For COURSES OF INSTRUCTION for Diploma in Tropical Medicine and Hygiene, see earlier section, beginning page 507.

Special Certificate in Diseases of Tropical Climates.

(See page 560.)

FEES FOR EXAMINATION.*(For the first and any subsequent appearance.)*

Practical Bacteriology	£1 1 0
Diseases of Tropical Climates (including Medical Entomology and Protozoology)	1 1 0
Tropical Hygiene	1 1 0
Tropical Clinical Medicine	1 1 0
	£4 4 0

TIME-TABLE OF EXAMINATIONS, ETC.

1914.

- Nov. 25. Wed. Names to be entered and Fees paid *on or before* this date. After this date a late entry fee of 10s. will be charged.
- Dec. 7. Mon. Certificates to be examined from 2-4.

Examinations.

- Dec. 8. Tu. Tropical Clinical Medicine, 10 A.M.
- " 9. Wed. { Diseases of Tropical Climates, 10 A.M.
 { Medical Entomology and Protozoology, 1 P.M.
- " 10. Th. { Tropical Hygiene, 10 A.M.
 { Practical Bacteriology, 1 P.M.

1915.

- June 17. Th. Names to be entered and Fees paid *on or before* this date. After this date a late entry fee of 10s. will be charged.
- " 29. Tu. Certificates to be examined from 2-4.

Examinations.

- " 30. Wed. Tropical Clinical Medicine, 10 A.M.
- July 1. Th. { Diseases of Tropical Climates, 10 A.M.
 { Medical Entomology and Protozoology, 1 P.M.
- " 2. Fri. { Tropical Hygiene, 10 A.M.
 { Practical Bacteriology, 1 P.M.

REGULATIONS FOR THE DIPLOMA IN PSYCHIATRY.

The Faculty of Medicine being of opinion that the study of Mental Diseases or Psychiatry has become during recent years a specialised branch of Medicine, the University has decided to institute a Diploma in Psychiatry (Dipl. Psych. Edin.).

The Faculty of Medicine anticipate that the Diploma will fulfil the requirements of those who intend to devote themselves to this branch of Medicine, and will promote the advance of Scientific investigation.

By a recent Medical Ordinance the University has obtained power to confer Diplomas upon any registered practitioner of Medicine, in addition to its own graduates, and the Diploma in Psychiatry is, therefore, open to any registered medical practitioner who conforms with the Regulations.

The Faculty of Medicine is of opinion that some hardship would be inflicted on many who at present hold Asylum appointments, if, being desirous of obtaining the Diploma, they were required to complete the full curriculum of study. It has therefore been decided that during a period of three years, from October 1911, candidates for the Diploma who have held responsible positions in Asylums for not less than two years may be exempted from the course of study in one or more subjects of the curriculum.

The course of study extends over one academic year, consisting of the Winter and Summer Sessions or three terms.

In the Winter Session, commencing in October, the courses of instruction consist of Anatomy of the Nervous System ; Physiology, Histology, and Chemistry of the Nervous System ; Pathology of the Brain and Nervous System ; Practical Bacteriology in its relation to Mental Diseases ; and Clinical Psychiatry. In the Summer Session, commencing in April : Psychiatry, Systematic and Clinical ; Psychology, including Experimental Psychology ; and Clinical Neurology.

There will be two examination periods in the year, viz., in March and in July, and no candidate will be allowed to proceed to the second examination until he has passed the first examination.

The Diploma will be conferred at the Graduation Ceremony in July.

The following are the Regulations which have been approved by the University Court :—

I. The Diploma (subject to the provisions of Section V. hereof) shall be granted to legally qualified Medical Practitioners who shall have pursued the prescribed course of study for the Diploma in the University of Edinburgh, and who shall have complied with all the requirements with respect to examinations herein contained.

II. Candidates shall, subsequent to the date of their graduation or of obtaining a registrable qualification, have attended the following courses of instruction :—

- (1) Anatomy of the Nervous System. Ten meetings of two hours each, during which the human brain shall twice be dissected. Class Fee, £1, 1s.
- (2) Physiology, Histology, and Chemistry of the Nervous System. Thirty meetings each of two hours' duration. Class Fee, £3, 3s.
- (3) Pathology, macroscopical and microscopical, of the Brain and Nervous System, including the making of sections and the staining and mounting of morbid specimens, in a course of twenty meetings. Class Fee, £1, 1s.
- (4)¹ Bacteriology in its relation to Mental Diseases, including personal work in the preparation of media, the cultivation of micro-organisms, the inoculation of animals, and staining and mounting. The course to extend over a period of about three months, the class meeting daily for two or three hours. Class Fee, £5, 5s.
- (5) Psychology, including Experimental Psychology, in a course of from twenty-five to thirty hours' instruction, extending over a period of about ten weeks' duration. Class Fee, £2, 2s.
- (6) Clinical Neurology in a course of ten meetings, supplementary to the instruction given in the ordinary courses of Clinical Medicine. Class Fee, £1, 1s.
- (7) Psychiatry in a course of ten hours, supplementary to the course in Mental Diseases now required for the degree of M.B., or to a similar course. Class Fee, £1, 1s.
- (8) Clinical Psychiatry in a course of about six months' duration in an approved Hospital or other institution for the treatment of Mental disorders, in which instruction is given on at least three days in each week ; or a course of three months' duration along with a resident medical appointment for three months. The holding for six months of a resident medical appointment in a

¹ Until this complete course on Bacteriology has been fully organised, the course on that subject for the Diploma will consist of the present University course of Practical Bacteriology, attended either before or after a registrable medical qualification recognised for the purpose by the University Court has been obtained, with the addition of practical instruction and personal work on subjects and methods bearing directly on Mental Diseases, increasing the duration of the existing course by from twenty to thirty days, for which additional course of instruction (twenty to thirty days) the Class Fee is £2, 2s.

Hospital for Mental disorders, with attendance on the clinical instruction (if not already obtained), will be regarded as equivalent to either of the above requirements. Class Fee—Six Months' Course, £3, 3s. ; Three Months' Course, £2, 2s.

- III. (1) Of the foregoing eight courses of instruction not less than five must be attended in the University of Edinburgh. The remainder may be taken in other Universities, or with extra-academical teachers recognised for the purpose by the University Court.
- (2) The fee for attendance on courses of instruction of recognised extra-academical teachers in Edinburgh shall not be less in amount than the fee for the corresponding courses in the University.
- (3) The University Court may, if they see cause, withdraw or suspend any Recognition which they may have granted.
- (4) Candidates shall not be deemed to have attended a course of instruction for the purposes of the Diploma who do not present certificates bearing not only that they have regularly attended the course, but also that they have satisfactorily performed the work thereof.
- IV. (1) There shall be two examinations for the Diploma, namely, one at the end of the Winter Session, comprising the subjects of Anatomy of the Nervous System ; Physiology, Histology and Chemistry of the Nervous System ; Pathology of the Brain and Nervous System ; and Practical Bacteriology in its relation to Mental Diseases ; and the other at the end of the Summer Session, comprising the subjects of Psychology with Experimental Psychology, Clinical Neurology, and Psychiatry (systematic and clinical).
- (2) No candidate shall be admitted to the second examination until he has passed in all the subjects of the first examination.
- (3) The fee for each examination shall be £5, 5s. In the event of a candidate being rejected in any subject or subjects the fee for re-examination in each subject shall be £1, 1s.
- (4) Candidates for examination who are not matriculated students of the year in which the examination takes place shall pay a fee equal in amount to the matriculation fee exigible for the academical year.

V. For a period of three years after the date when the Regulations for the Diploma came into operation—1st October 1911—the Senatus, subject to the approval of the University Court, may, if they see fit, after consideration of a reasoned report by the Faculty of Medicine, grant exemption from part of the foregoing requirements to such candidates for the Diploma as are at the time Medical Officials of Asylums who have held office for at least two years prior to 1st October 1911.

PROGRAMME OF CLASSES.

WINTER SESSION, 1914-1915.

Note.—Further information regarding the Courses is given on the pages stated in the last column of the Table.

CLASSES.	Days of Opening, and Days and Hours of Meetings of Classes.	Professors and Lecturers.	Class Fees.	See also page
Anatomy of the Nervous System . . .	14 Oct.,	{ Professor Robinson and De- monstrators	£1 1 0	512
Physiology of the Nervous System ¹ . . .	Oct.,	{ Prof. Sir E. A. Schäfer, Dr Ninian Bruce, and Dr Cramer . . .	3 3 0	514
Pathology of the Brain and Nervous System.	Dates to be arranged by teachers and candidates	{ Asylum Superintendents re- cognised for the purpose by the University Court .	1 1 0	
Practical Bacteriology in its relation to Mental Diseases . . .	14 Oct., 4 p.m.	{ Professor Ritchie, or Asylum Bacteriologists recognised for the purpose .	5 5 0 ² 2 2 0 ³	517 517
Clinical Psychiatry . . .	7 Oct., 10 a.m.	{ Dr G. M. Robertson, Super- intendent, Royal Asylum, Morningside .	3 3 0 ⁴ 2 2 0 ⁵	
Clinical Neurology ⁶ . . .	...	Dr J. J. Graham Brown .	1 1 0	530

¹ Hours will be arranged to suit Students.

² Full course.

³ Supplementary course.

⁴ Six months' course.

⁵ Three months' course.

⁶ A course will be held after Christmas, and also during the
Summer Session: dates to be arranged.

CLASSES.	Days of Opening, and Days and Hours of Meetings of Classes.	Professors and Lecturers.	Class Fees.	See also page
Psychiatry Lectures (<i>Monday, Wednesday, and Friday</i>)	21 Apr., 3 p.m.	Dr George M. Robertson .	£1 1 0 ¹	527
Psychology, including Experimental Psych- ology (<i>Wednesday and Friday</i>)	21 Apr., 10 a.m.	Dr W. G. Smith .	2 2 0	533
Clinical Psychiatry (<i>Monday, Tuesday, and Thursday</i>)	22 Apr., 10 a.m.	{ Dr G. M. Robertson, Super- intendent, Royal Asylum, Morningside .	{ 3 3 0 ² 2 2 0 ²	
Clinical Neurology ⁴	...	Dr J. J. Graham Brown .	1 1 0	530

¹ Or with course on Mental Diseases, £3, 3s.

² Six months' course.

³ Three months' course.

⁴ A course will be held after Christmas, and also during the
Summer Session: dates to be arranged.

FEES FOR EXAMINATION.

First Examination, in Anatomy, Physiology, Pathology, and Bacteriology . . . £5 5 0

Second Examination, in Psychology (including Experimental Psychology), Clinical

Neurology and Psychiatry (systematic and clinical) . . . 5 5 0

£10 10 0

For re-appearance—each subject . . . £1 1 0

TIME-TABLE OF EXAMINATIONS.

1915.

March 8.	Mon.	Names to be entered, and Fees paid, on or before this date.
„ 17.	Wed.	Certificates to be examined from 2-4.
„ 18.	Th.	{ Anatomy of Nervous System. Physiology, Histology, and Chemistry of the Nervous System.
„ 19.	Fri.	Practical Bacteriology in its relation to Mental Diseases.
„ 20.	Sat.	Pathology of Brain and Nervous System.

June 17.	Th.	Names to be entered, and Fees paid, on or before this date.
„ 29.	Tu.	Certificates to be examined from 2-4.
„ 30.	Wed.	{ Psychology, including Experimental Psychology. Psychiatry.
July 1.	Th.	{ Clinical Psychiatry. Clinical Neurology.

N.B.—The above dates are approximate, and are subject to alteration, if found necessary. The hours will be afterwards announced.

For COURSES OF INSTRUCTION for Diploma in Psychiatry, see earlier section, beginning page 507, and Table on pages 600-1.

FACULTY OF MUSIC

DEAN—PROFESSOR DONALD F. TOVEY, B.A.

PROGRAMME OF CLASSES, 1914-1915.

The Classes will meet as stated below. They will meet for the last time before the Christmas vacation on Friday, 18th December 1914; will reassemble on Monday, 4th January 1915, and will be closed on Friday, 12th March 1915. The Classes are open to Men and Women Students.

CLASSES.	Days of Opening and Hours of Lectures.	Professor and Assistant.	Class Fees.
Musical Analysis (<i>Mondays</i>)	12 Oct., 3 p.m.	Professor Tovey	£1 1 0
Counterpoint and Composition (<i>Mondays</i>)	12 Oct., 4 p.m.		2 2 0
History of Music (<i>Tuesdays</i>)	13 Oct., 3 p.m.		1 1 0
Theory of Harmony (<i>Wednesdays and Fridays</i>)	14 Oct., 4 p.m.		2 2 0
Musical Form (<i>Tuesdays</i>)	13 Oct., 4 p.m.	Dr Shirlaw	2 2 0
Tutorial, etc., Classes, supplementary to the above : *—			
Harmony (<i>Wednesdays</i>)	14 Oct., 2 p.m.	Prof. Tovey and Dr Shirlaw	0 10 6*
Advanced Harmony (<i>Fridays</i>)	16 Oct., 2 p.m.		0 10 6*
Counterpoint (<i>Thursdays</i>)	15 Oct., 2 p.m.		0 10 6*

* Certain changes are intended to be made, which will be intimated later.

SERIES OF HISTORICAL CONCERTS.

Fee for these Concerts, Half a Guinea. Those attending any of the Music Classes are admitted free.

ENTRY FOR CLASSES, ETC.

Students who do not intend to graduate in Music may, without matriculating or passing any Preliminary Examination, attend any of the Classes, on payment of the Class Fees, and the University Entrance-Fee of Five Shillings for each class. (See p. 35.)

Those desiring to graduate must pass the Preliminary Examination, and must Matriculate before enrolling in any Class, if they wish the Lectures to qualify for Graduation.

Students are required to take out their Matriculation Tickets and Class Tickets not later than fifteen days after the beginning of the Course.

MUSIC CLASS-ROOM LIBRARY.

The Reading-Room of this Library is open for the consultation and study of musical works and books on music to those attending the Music Classes, daily, except Saturday, from 2 to 5 during the Winter Session, and Monday and Thursday from 2 to 5 in Summer.

REGULATIONS FOR GRADUATION IN MUSIC.

I. Two degrees in Music are conferred by the University, viz., Bachelor of Music (Mus.B.), and Doctor of Music (Mus.D.).

PRELIMINARY EXAMINATION.

FOR THE DEGREE OF Mus.B.

(See page 88.)

BACHELOR OF MUSIC.

University Attendance.

III. Candidates for the degree of Mus.B. must attend, in the University of Edinburgh, during a whole Winter Session, a course or courses of instruction extending in all to not less than eighty Lectures, and including a course on the History of Music.

First Professional Examination.

IV. There is a First Professional Examination in Music in the following subjects :—

- (1) Ear Tests and Singing or Performing upon some Musical Instrument.
- (2) Reading at Sight.
- (3) Elements of Music, including Notation, Scales, Modes, Intervals, Measure, *Tempo*, Signs, Ornaments, Musical Terms, etc.
- (4) Harmony in not more than four parts.
- (5) Elementary Counterpoint.
- (6) Form : Sonata, Rondo, Fugue, and Minor Structures.
- (7) Outlines of the History of Music.

Second Professional Examination.

V. There shall be, at least one year after the candidate has passed the First Professional Examination, a second Professional Examination in Music and in Literature in the following subjects :—

- (1) One of the following languages not already taken in the Preliminary Examination—French, German, Italian.
- (2) Rhetoric and English Literature (including Prose Composition, Metrical Rules, Scanning, and Comparison of the natures of Poetry and Music).
- (3) Harmony in not more than five parts.
- (4) Advanced Counterpoint.
- (5) Canon in two parts, and Imitation and Fugue in not more than four parts.
- (6) Form (Description of Structure and Character of Musical Forms, and Analysis of Musical Works).

- (7) Elements of Instrumentation.
- (8) Critical Knowledge of certain prescribed Scores.
- (9) Playing at Sight from easy Vocal and Instrumental Scores, and from Figured Bass.
- (10) The History of Music.
- (11) Acoustics in so far as connected with the Theory and Practice of Music, and Physiology of the Vocal Organs.

Each Candidate will also be required to submit the following exercises composed by himself:—

- (a) A Solo Song with Pianoforte Accompaniment.
- (b) A Four-part Vocal Composition.
- (c) An Instrumental Composition (other than a Dance) for the Pianoforte or Organ, or for any Stringed or Wind Instrument with Pianoforte or Organ Accompaniment.

The extent and standard of examination is fixed by the Senatus. The examination is partly written and partly oral and practical.

DOCTOR OF MUSIC.

V. Bachelors of Music of this University, of not less than three years' standing, and not less than twenty-five years of age, may offer themselves for the degree of Mus.D. under the following regulations:—The degree is given in three Departments, those of (1) Composers; (2) Executants; (3) Theorists or Historians; and Candidates may present themselves in one or more Departments.

VI. (1) Candidates for the degree of Mus.D. as Composers must submit a prescribed number of Vocal and Instrumental Compositions in the larger forms (such as Oratorio, Opera, Cantata, Symphony, Sonata, Overture). Each work must be the original and unaided composition of the Candidate, and must be accompanied by a declaration to that effect signed by the Candidate.

- (2) Candidates will be examined in the following subjects:—
 - (a) The more recondite Contrapuntal Forms—Fugal Writing in more than four parts, etc.

- (b) Instrumentation, including prescribed books on the subject.
- (c) The works of the great Composers from Palestrina onwards.

VII. (1) Candidates for the degree of Mus.D. as Executants will be required to show their special skill in the execution of Solo and *ensemble* works in different styles. The works will be selected partly by the Candidates and partly by the examiners.

(2) The Candidates will be examined in sight-reading, and must give evidence of their power of playing Orchestral Scores, and will be required to invent Transitions and to modulate from one Key and Piece to another. They will further be required to pass an examination on the History and Literature of their special instrument, and on the method of teaching that instrument.

VIII. (1) Candidates for the degree of Mus.D. as Theorists or Historians must present one or more treatises on Theoretical or Historical subjects, which must be the result of research and original thought, not mere abstracts or compilations of existing works. They must be accompanied by a declaration signed by the Candidate that they are his own unaided work.

(2) Candidates will also be required to pass an examination (a) in the Theory and (b) in the History of Music.

The examination will be on a higher standard in the subject which the Candidate selects as his specialty.

IX. The examiners for the degree of Mus.D. are the same as for the degree of Mus.B.

It is competent to the University Court of the University of Edinburgh, after consultation with the Senatus, to modify from time to time the provisions as to curriculum hereinbefore contained, in case such modification shall be rendered desirable.

X. (1) The degree of Mus.D. may be conferred *honoris causi tantum*.

(2) The honorary degree of Mus.D. will not be conferred by the Senatus on any person unless recommended by the Faculty of Music in a reasoned representation, submitted in writing to the Senatus, and considered and approved by the Senatus at a special meeting at which not less than two-thirds of the members were present.

FEES FOR EXAMINATIONS.¹

Preliminary Examination, for each appearance, 10s. 6d.

Degree of Mus.B., £10, 10s., divided as follows :—

First Professional Examination	£3	3	0
Second Professional Examination—Literary part	1	1	0
Do. do. —Musical part	3	3	0
For the Diploma (<i>payable at least two days before Graduation</i>)	3	3	0

Candidates who fail in any subject pay a fee of 10s. 6d. for each subject in which they are admitted to re-examination ; but the total shall not exceed £3, 3s.

Mus.D. Examination	£15	15	0
Reappearance for do.	10	10	0

Candidates who cannot pay the fees personally may transmit them to JAS. DOWIE, University, Edinburgh, by *Money Orders* or *Postal Orders*, or by *Bank Drafts*, crossed Union Bank of Scotland (Hunter Square Branch), Edinburgh.

DATES OF EXAMINATIONS.

Preliminary. (See page 103).

1915.

Degree of Mus.B.

Mar. 1 Mon. Names to be given in, Certificates shown, and fees paid, on or before this date.

First Professional Examination.

Date.		Subject.	Hours.
1915. ²			
Mar. ...	...	Singing, Playing, Reading at Sight, and Ear Test	10
		Harmony	2-5
" ...	...	Counterpoint	10-1
		Elements of Music	2-5
" ...	...	History of Music	10-1
		Form	2-5

¹ If names are not entered, and fees are not paid, on or before the stated dates, a late-entry fee of ten shillings must be paid before the candidate can be admitted to examination.

² Dates will be afterwards intimated

Dates of Examinations—continued.**Second Professional Examination.**

Date.		Subject.	Hours.
1915. ¹			
Mar. ...	...	Playing at Sight from Scores . . .	9
		Harmony	2-5
" ...	...	Counterpoint	10-1
		Canon and Fugue	2-5
" ...	...	Instrumentation, and Critical Knowledge of Scores	10-1
		Form	2-5
" ...	...	History	10-1
		Acoustics, and Physiology of the Vocal Organs	2-5
" ...	...	Rhetoric and English Literature . . .	10-1

BUCHER SCHOLARSHIP IN MUSIC.

This Scholarship was founded by the late Signor Theophile Bucher, is of the annual value of £120, and is tenable for three years; and may be extended to a period not exceeding two years. The Subjects of Examination include Rhythm, Harmony, and Counterpoint. The competition is open to young men between the age of sixteen and twenty-five inclusively, who were born in Scotland, who may show a natural talent for music and wish to make it their profession, for the purpose of improving their education, and who either are, or have been, enrolled as students in the Faculty of Music in this University. The scholar must, during his tenure of the Scholarship, prosecute the study of the science and art of Music in Italy, Germany, and France, as the Senatus, on the recommendation of the Faculty of Music, may determine. The Scholarship may be open in March 1917. Names to be entered on or before 1st February. See Scheme of Administration, p. 709 of CALENDAR for 1894-95.

1914, JOHN RAE ROBERTSON.

¹ Dates will be afterwards intimated.

EDUCATION IN MILITARY SUBJECTS.

[*Published with the Approval and Sanction of the
Army Council.*]

Lecturer—CAPTAIN H. M. JOHNSTONE, R.E. (*ret.*).

ABSTRACT OF WAR OFFICE REGULATIONS under which Commissions in the Army may be obtained by University Candidates.¹

1. Commissions in the Cavalry, the Royal Artillery, the Infantry, the Army Service Corps, and the Indian Army, may be granted each half-year on the nomination of recognised universities, or of groups of recognised universities, as indicated hereafter, to members of such universities who have fulfilled certain conditions of academic and military qualification.

2. The Scottish universities have been constituted a unit for the purpose of nomination.

3. Each university, or group of universities, will appoint a Nomination Board, to which the War Office will add one or more military members, who will have a veto on any selection. The selection of candidates by the University Boards will be made after each half-yearly examination in military subjects, and the names of candidates then nominated will be rendered to the War Office by 15th January and 15th July each year.

4. The commissions of nominated candidates will be antedated eighteen months from the date on which their names appear in the *London Gazette*, candidates with "honours" degrees being eligible for an additional six months' antedate.

¹ For more detailed information, see the official "Regulations under which Commissions in the Regular Army may be obtained by University Candidates," a pamphlet which can be obtained from the Military Lecturer.

5. A candidate for nomination—

- (a) Must have attained the age of 21 and must not have attained the age of 25 (24 for Indian Army) on 15th January for a winter nomination, or 15th July for a summer nomination.
- (b) Must be unmarried.
- (c) Must be, in the opinion of the Army Council, in all respects suitable to hold a commission in the Regular Forces.

6. A candidate must—

- (a) Reside for three academic years at an approved university or college of the same.
- (b) Qualify for a degree in an approved subject or group of subjects.
- (c) Produce a certificate of good conduct from the head or other competent authority of the university, or college of the same, in which he has resided.

At the Scottish universities a candidate must have graduated after a course of study extending over at least three academic years.

7. Candidates may graduate in any of the subjects, or groups of subjects, current at the several universities, with the exception of Theology, Medicine, Music, and Commerce.

8. Graduation with first-class honours in the Scottish universities is defined as follows:—A first class in any honours group, or the B.Sc. degree in pure science or in engineering, provided that the diploma of the graduate certifies that he has obtained special distinction in at least one of the subjects of his final science examination.

9. A candidate for a commission in the Royal Artillery must produce evidence satisfactory to the Nomination Board that he has duly qualified in the mathematical and science subjects set forth in Appendix II. of "Regulations for University Candidates" (official).

10. In addition to the academic qualifications specified in paragraph 6 above, a candidate for nomination must present certificates of military qualifications, practical and theoretical.

In this connection—

- (a) He will be required, in addition to the military instruction which will form part of the curriculum during his residence at the university, to be attached to a Regular unit for a minimum period of 6 consecutive weeks, and to obtain a satisfactory certificate as to his proficiency,¹ also to be an "efficient member of the Senior Division Officers' Training Corps, each year from the date of his registration in the books of the university as an army candidate. If the candidate is an officer of the Special Reserve of Officers, the probationary period of training with a Regular unit will count as the equivalent of the "attachment to a Regular unit." Under special circumstances, where a candidate has not been for two years at the university a member of the O.T.C., Senior Division, a second period of attachment for six weeks may, on the recommendation of the university authorities, be accepted in place of such service. Before such attachment the candidate must have been instructed in Squad Drill, as laid down in "Infantry Training."

Candidates should apply for attachment to a Regular unit through the authorities of their university to the Secretary, War Office. Arrangements will then be made, firstly for his appointment to a temporary commission on the unattached list for the Territorial Force, and secondly for his attachment to a Regular unit.² In the case of such an unattached officer, the compulsory provision of uniform will be limited to the provision of the service dress with sword, etc.

During these periods of attachment no candidate will be eligible for an outfit allowance, nor will he receive either pay or allowances, except as provided for in the case of an Officer of the O.T.C. (*See Regulations for the O.T.C.*)

- (b) He will be required to qualify in military subjects at an examination, which will be held in March and October

¹ See Appendix IV., "Regulations for University Candidates" (official).

² Forms of application may be had from the Military Lecturer.

of each year at the several universities, under instructions from the War Office.

11. This examination¹ consists of written papers and a practical test.

		Marks.
Group A	1. Military history and strategy	1000
	2. Tactics	1500
Group B	3. Field engineering	1000
	4. Map reading and Field sketching	500
Group C	5. Military Administration and Organisation	250

The practical test is in Field Sketching. It does not form part of a Group, and has no marks assigned to it, the candidate being simply returned as "passed" or "failed." It should be taken immediately after Group B.

Candidates who so desire may take up the examination in three parts. For this purpose the subjects are divided into groups as shown.

To qualify, a candidate must, in addition to passing the practical test, obtain $\cdot 4$ in *each paper* of A and B, and $\cdot 5$ in the aggregate of *each group* (A, B, and C). Where the three groups are taken together at one examination, a candidate has qualified if he obtains $\cdot 4$ in each paper and $\cdot 5$ for the whole examination.

A candidate who fails to qualify in one paper only of a group, but who obtains $\cdot 5$ in the aggregate of the remaining papers of the group, will be re-examined in that paper only, when he will require to obtain $\cdot 5$ in that paper. Such a paper must be taken up with any remaining group, paper or papers, in which the candidate has yet to qualify.

If he fails to qualify in more than one paper of a group, or in the aggregate of the group, he must be re-examined in all the papers of that group.

12. Notice will be given from time to time of the number of commissions which will be allotted to university candidates, and of the proportion assigned to each nominating unit.²

¹ Full details of the subjects of examination are given in Appendix III. of the War Office Regulations for University Candidates.

² The allotment of Royal Artillery and Indian Army commissions depends on the number of candidates nominated on each occasion by the different universities. Between them all there will be available each half-year 6 commissions for Indian Army, 6 for Royal Artillery, and 30 for Cavalry, Infantry, and Army Service Corps

13. The candidates nominated each half-year will be arranged in one list, as follows :—

One name will be taken successively from the list of nominations of each university.

Honours men who are entitled to antedated commissions, under paragraph 4, will take precedence before all other candidates.

Medical Inspection.

14. The selected candidates will be examined by Medical Boards in London, Dublin, and Edinburgh, and no candidate will be accepted unless recommended by this Medical Board as physically fit for His Majesty's Service.¹

Candidates who are pronounced unfit will be allowed to present themselves for re-examination by an Appeal Board, which will assemble in London a few days later. The decision of the Appeal Board will in all cases be absolutely final.

Preliminary Medical Inspection.

15. It is suggested that a candidate before commencing his course of study should undergo a thorough medical examination. By such an examination any *serious* physical disqualification would be revealed, and the candidate probably spared expense and the mortification of rejection.

16. Candidates may undergo a preliminary examination by a military Medical Board, not more than two years before they compete, under the following conditions :—

- (a) Applications must be addressed to the Secretary, War Office, London, S.W., accompanied by a fee of two guineas. (Cheques, etc., should be made payable to the Assistant Financial Secretary, War Office.)
- (b) Instructions will be issued for the examination to take place at the military station where a Medical Board can be held, nearest the candidate's residence. The result will be notified to candidates by the Board.
- (c) Candidates must pay their travelling expenses
- (d) Candidates found unfit by the preliminary Medical Board are not bound to accept its finding, but may,

¹ The general condition as to height, weight, chest measurement, eyesight, etc., etc., required, are given on Appendix I. of the War Office Regulations for University Candidates, copies of which may be obtained from the Military Lecturer.

at their own risk, continue their studies, and if nominated may then submit themselves for medical examination by the *final* Medical Board.

- (e) It must be distinctly understood that passing such preliminary Medical Board is solely for the candidate's information, and would give him no sort of claim to be accepted as physically fit when he is nominated by the University Board. His acceptance will depend entirely upon the report of the final Medical Board, which examines nominated candidates. Candidates may be fit for the service at the preliminary examination, but may become disqualified by some subsequent physical deterioration.

REGULATIONS FOR THE TRAINING IN MILITARY SUBJECTS AT EDINBURGH UNIVERSITY, as approved by the War Office.

(1) During two years at least of his Degree Course the student shall attend the Course of Military Lectures held each Session.

(2) He shall be a member, from the date of his registration as an Army Candidate, of the University Contingent of the Officers Training Corps, and shall be certified "efficient" each year.¹

(3) During the second or any subsequent year he shall serve for six weeks with a Unit of the Regular Army, as an unattached Territorial Officer.

(4) He shall, during or at the end of the Degree Course, undergo a qualifying Examination in Military Subjects. This Examination is set by the War Office, and can be taken in Groups, as stated in para. 11, Abstract of War Office Regulations. The candidate, if qualified, obtains from the War Office a certificate.

(5) He then appears in person before the Scottish Universities Nomination Board, and presents his Certificates as follows:—Birth, Character, Graduation, certificates of "efficiency" from O.T.C., Certificate from the Military Lecturer that he has duly

¹ For information as to O.T.C., candidates should apply to the Adjutant of the Contingent.

performed the work of the Military Course of Lectures, the War Office Qualification Certificate as in (4), Report from O.C. of his University Corps as to his efficiency and qualifications generally, and a Certificate of Proficiency from the Commanding Officer of the Regular Unit with which he served.

CURRICULUM OF THE MILITARY LECTURES.

(1) MILITARY HISTORY AND STRATEGY ; a full Course.

The campaign appointed by the War Office for the Examination mentioned in Regulation (4) above will be studied, along with others.

Books recommended.—Hamley's *Operations of War*; Henderson's *The Science of War*; Derrécagaix's *La Guerre Moderne*; and Captain Johnstone's *The Foundations of Strategy*.

(For the Military History M.A. Degree Examination, see "Courses and Subjects of Examination under Faculty of Arts—Department of History and Law, and Graduation in Arts—Pass Examinations—Military History.")

(2) TACTICS *and the History of Tactics*; about 20 Lectures.

Books recommended.—De Gruyther's *Tactics for Beginners*; *Field Service Regulations* and *Infantry Training* (official); Captain Johnstone's *A History of Tactics and Training and Tactics*; *App. to Training Manuals* (official).

(3) MILITARY ENGINEERING, the Elements of ; 8 Lectures.

Book recommended.—*Official Manual*.

(4) MILITARY TOPOGRAPHY ; 6 Lectures.

Books.—*Map Reading and Field Sketching* (official); Shaw's *Studies in Map Reading* (Kegan Paul); Captain Pearson's *Military Panorama Drawing* (Gale & Polden).

During the Summer Term there will be a few days of practical work in the field.

(5) ORGANIZATION ; a few Lectures.

Books.—*War Establishments* (official); *Mobilization Regulations* (official); Banning's *Organization*; *Field Service Pocket Book* (official); *King's Regulations* (official).

Frequent exercises in the various subjects will be given, and there will be Class Examinations.

The Class meets on Mondays, Tuesdays, Thursdays, and Fridays, at 3 P.M., beginning on Tuesday, 13th October.

The fee for the Course of Lectures is 3 guineas.

The Course of Military Lectures is open to any others, whether fully Matriculated Students or not, who are interested in the subject, an entrance fee of 5s. being charged in addition to the 3-guinea fee for the Course, in the case of Non-Matriculated Students. The Course is divided into five Sections, of 12 to 15 lectures each; any single Section may be taken at a fee of 15s., with a single 5s. entrance fee if not matriculated.

Students working for a Degree may take half of the Technical Mathematics Course and the Topography Lectures in lieu of a Pure Mathematics Course for the Degree; those who take this alternative will be examined with special reference to the courses in Mathematics and Topography thus taken. The Course has been recognised by the Senatus as one in which attendance is taken as qualifying attendance for an Arts Degree Subject; Military History having been added as a Degree Subject under History.

SURVEYING.

Candidates are recommended to take the Summer Course of Surveying given by the Professor of Engineering.

This Course consists of lectures, of practical work in the field, and of plotting work in the drawing office. The subjects dealt with include surveying with the chain and with angular instruments; levelling; the optical and mechanical principles tests and various adjustments of surveying and levelling instruments; setting out of curves; triangulation and tacheometry.

The Class meets three times a week, and the whole of each of these days will be occupied in the work of the Class from 10 to 4. The Course begins about the middle of April, and will be completed about the end of June. Fee for the Course—3 guineas.

PRACTICAL FIELD TRAINING AND DRILL.

A. Infantry.

The candidate must be a member for three years of his course of the Infantry Unit, Edinburgh University Officers' Training Corps. (See Company Notice on p. 621.)

The course of training is as follows :—

FIRST YEAR.

RECRUIT DRILL (*Compulsory*).—Squads are formed at the beginning of each term, and at any other time when there is a sufficiency of Recruits. 30 Parades must be attended. Recruits are recommended to join in October.

COMPANY TRAINING (*Optional*).—(1) Drills are held weekly in the Quadrangles and under cover during the Winter Months. Recruits, when dismissed from Recruit squad, should attend as many of these as possible.

(2) Field days are arranged monthly throughout the Autumn and Spring Terms, except in December; in the Summer Term, every fortnight.

The Company training includes Schemes in Attack and Defence; Advance, Rear, and Flank Guards; Outposts; Patrols and Reconnoitring; Convoys; Shelter Trench Work, Camps and Bivouacs; Lectures by Officers.

RECRUIT MUSKETRY (*Compulsory*).—Between 1st March and 30th June inclusive.

SPRING MARCHING COLUMN (*Optional*).—For five days in April or May, the best opportunity in the year for Company training; all branches above mentioned are practised.

CONTINGENT CAMP.—For eight days (*compulsory*), with another seven days (*optional*). Battalion and Brigade work is engaged in with the other Scottish units of the O.T.C.

MACHINE GUN TRAINING (<i>Optional</i>)	} Go on with ordinary Company Training.
SIGNALLING (Semaphore and Elementary Morse)	

SECOND YEAR.

COMPANY TRAINING (*Compulsory*).—15 Instructional Parades, of which 5 may be performed at camp; work as above defined.

CONTINGENT CAMP.—As above.

TRAINED MAN'S COURSE, MUSKETRY.—Table B.

SIGNALLING.—Flags, Lamps, Heliograph.

B CERTIFICATE EXAMINATION.—6 weeks with Regulars.

THIRD YEAR.

COMPANY TRAINING AND MUSKETRY as a N.C.O.

SPRING AND SUMMER CAMPS, as above, as N.C.O.

HYTHE COURSE IN MUSKETRY (*Optional*) for 3 weeks.

INSTRUCTION IN WRITING ORDERS.

6 weeks with Regulars, or 12 if no attendance in second year
The latter is recommended.

RIDING. —Instruction can be obtained at Player's Riding School, Tollcross, where there is a Military Riding Master.

In 1914 a Riding Club, under Military Instruction, will probably be formed in the Unit.

B. Artillery.

The candidate must be a member of the Artillery Unit, Officers' Training Corps. (See Notice following.)

FIRST YEAR.

RECRUIT DRILL. —Squads are formed at the beginning of each Session. The training comprises Gun Drill on the 18 pr. Q.F. gun, Cavalry Foot Drill, and Rifle Drill.

BATTERY DRILL. —Comprises Battery Gun Drill, laying out Lines of Fire, Range Taking, Observing, and Signalling.

LECTURES ON GUNNERY AND GUN MECHANISM.

CAMPS. 7 days in May (*voluntary*) and 15 days in July (8 days *compulsory*).

RIFLE SHOOTING in summer months.

A CERTIFICATE EXAMINATION.

SECOND YEAR.

BATTERY GUN DRILL, LECTURES, CAMPS, and RIFLE SHOOTING.
SIGNALLING (Semaphore and Morse).

RIDING. —Taught free at one of the Edinburgh Riding Schools ; also Mounted Parades during the Session.

B CERTIFICATE EXAMINATION.

6 weeks with Regulars.

THIRD YEAR.

As above.

6 weeks with Regulars, or 12 if no attendance in second year.

OFFICERS' TRAINING CORPS.**A. Artillery Unit.**

Major and Officer Commanding—H. Howden.

Captain—J. E. Mackenzie.

Lieutenants—G. Beveridge, W. S. Durward, and J. B. Todd.

Battery Sergeant-Major—H. C. Hinwood.

Battery Quartermaster-Sergeant—W. G. MacEwen.

Hon. Secretary—Corporal Shoeing-Smith C. A. E. J. Brownlee.

Hon. Treasurer—Lieut. W. S. Durward, 16 George Square.

The Battery—which is armed with the 18 pr. Q.F. gun—drills in the O.T.C. Headquarters, Infirmary Street, at 5.15 P.M. on different days in the week throughout the session.

CAMPS.

Spring Camp (which is voluntary) is held at Buddon for 6 days during the Victoria Holidays.

Annual or Summer Camp (which is compulsory) is held at Buddon for 15 days in July. At this Camp the Battery is fully horsed.

During the summer, Rifle Shooting is practised at Hunter's Bog, and several prizes, medals, and cups are offered for competition. There is also a miniature rifle range at Headquarters, which is allotted to the Battery on Wednesdays.

Riding lessons are given to men in the Battery, and mounted parades are held from time to time during the session. The Battery formerly held the Championship of Scotland for three years, and twice were runners-up for the Championship of Britain, whilst in 1907, at Lydd, they secured the Championship of Britain and the King's Cup, with numerous other trophies and prizes. Detailed information may be had on applying to any of the Officers, B.S.-M. Hinwood, or at Headquarters.

B. Engineer Unit.

Captain and Officer Commanding—R. J. M. Inglis, Assoc.M.Inst.C.E., at Station Hotel, Kirkcaldy.

Lieutenant—A. K. Paterson, B.Sc., 30 Royal Terrace, Edinburgh.

Second Lieutenant—R. D. Duncan, 5 Eyre Crescent, Edinburgh.

The Engineer Unit was formed on 11th January 1910, for the purpose of preparing and qualifying cadets for commissions in the Royal Engineer Special Reserve and the Territorial Force.

TRAINING.

The training in the Unit is most varied and interesting, and thoroughly practical, Military Engineering of almost every kind being carried out. Cadets are instructed in the following subjects :—

1. Infantry Training.
2. Field Service Regulations (Operations).
3. Musketry.
4. Military Engineering.
 - (a) Field Defences (including the working out of the number of men, tools, etc., required for any particular work).
 - (b) Attack and Defence of Fortresses.
 - (c) Military Bridging (Frame, Cantilever, Trestle, Floating, and Suspension); the Use of Spars, Knots, and Lashings.
 - (d) Mining and Demolitions (Shafts and Galleries; Ventilation and Lighting of Galleries; Rules for Calculating Charges; Firing Charges, with and without Electricity; Boring and Blasting; Explosives, etc.).
 - (e) Encampments, Huts, Sanitation, etc.
 - (f) Boning and Levelling.
 - (g) Military Roads.
 - (h) Supply and Distribution of Water.
 - (i) Railways and Telegraphs—Construction and Demolition of, with and without Explosives.
5. Military Law.
6. Map Reading and Field Sketching.
7. Signalling.

It will be observed that the training is most useful for students who intend to enter the Engineering profession.

CAMPS.

A special Spring Camp is held in May (at the time of the Victoria Day holidays), and the Annual Camp Training of a fortnight is held immediately after the finish of the Summer Term.

C. Infantry Unit.

(Formed 1859; Transferred to O.T.C. 1908.)

Captain and Officer Commanding—J. R. Bruce, 59 Great King Street.

Captain—J. M. Bell, 110 Polwarth Terrace.

Lieutenant—J. R. Menzies.

Second Lieutenants—W. H. Johnstone, W. S. Forbes, J. M. Macdonald, and H. M. Deans.

The Infantry Unit carries on the traditions of the old Edinburgh University Rifle Company, which was the first company of Volunteers formed in Scotland. It is organised as a double company, possesses a Maxim gun, and has numerous shooting prizes, both for match target and for field service target competitions. Company training is spread over winter and summer to suit all. Numerous field days are held, and instruction given in elementary field engineering and signalling. The Unit has a marching camp of its own every May, and goes for fifteen days to camp in summer. The kilt service uniform is worn. A pipe and drum band has also been organised among the cadets. University men wishing to join can get information from any of the officers. Recruits taken between 1st October and 1st May. The object of the Unit is that of the Officers' Training Corps generally, viz., the supply of officers to H.M. Regular, Special Reserve, and Territorial Forces, with the further special function of replacing casualties in time of war from a supply of already trained cadets.

D. Medical Unit.

LATE EDINBURGH COMPANY ROYAL ARMY MEDICAL CORPS
VOLUNTEERS.

(Formed 1886; Transferred to O.T.C. 1908.)

Officer Commanding—Capt. Wm. Darling, M.A., M.B., F.R.C.S., 2 Warrender Park Terrace.

Officer—Capt. J. M. Darling, M.A., M.B., F.R.C.S., 116 Marchmont Road.

This Unit, with its training, is specially adapted for the supply of Medical Officers to the R.A.M.C. Special Reserve and Territorial Force, and has always attracted a large number of medical students to its ranks. Its present strength is 115, and it comprises two sections of a Field Ambulance. The Unit has a 5-day camp in May every year, and an official 15-days camp in July, the latter being generally held at Aldershot. Drills are held at the Headquarters, High School Yards, twice weekly. Instruction in signalling and riding is also given. The uniform worn is New Service Dress, with riding breeches and putties. Particulars in detail of the work carried out by this Unit are contained in the *Students' Hand-Book*.

GRADUATION LISTS.

Complete Lists of Degrees conferred, to 1888, are given in the following volumes:—

A Catalogue of the Graduates in the Faculties of Arts, Divinity, and Law, of the University of Edinburgh, since its Foundation (published 1858).

List of the Graduates in Medicine in the University of Edinburgh, from MDCCV. to MDCCCLXVI. (published 1867).

Alphabetical List of Graduates of the University of Edinburgh, from 1859 to 1888 (both years included).

Lists of Degrees conferred, etc., etc., from 1889 onwards, are given in the UNIVERSITY CALENDARS.

HONORARY GRADUATES.

D.D., LL.D., AND MUS.D.

The first section of each list—1889-1903—gives the names of the recipients of the Honorary Degree, who are alive at the date of publication; the second section gives the names of all who received the Degree from 1904-1913.

DEGREE OF DOCTOR OF DIVINITY (D.D.).

The Degree of Doctor of Divinity is conferred *honoris causâ tantum*,—and is granted in absence in special cases only. The Register of Doctors of Divinity begins in 1709, with the names of Edmund Calamy, Daniel Williams, and Joshua Oldfield. The names of Evans, Harris, and Isaac Watts follow in 1728.

1889.

Archibald Henry Sayce, M.A.

1891.

Richard Glover.

1893.

Thomas Nicol, B.D.

Thomas B. W. Niven.

George Adam Smith.

James Wells, M.A.

1894.

J. A. M'Clymont, M.A., B.D.
William Muirhead.

1895.

Alexander Marshall, M.A.
John Patrick, M.A., B.D.
David Sidey.

1896.

Charles Gore, M.A.
William Miller, C.I.E., LL.D.

1897.

H. M. Gwatkin, M.A.
J. B. Hastings, M.A.
W. P. Paterson, M.A., B.D.

1898.

George Macalister, M.A.
M. Henri Bois.
Alexander Martin, M.A.
Peter Thomson, M.A., B.D.

1900.

William Bannerman.
Charles Martin Grant, M.A., B.D.

1904.

Andrew Hutton Drysdale, M.A.
John Forbes Watson Grant, M.A.
John Anderson Graham, M.A.
Robert Dykes Shaw, M.A., B.D.

1905.

James A. Kerr Bain, M.A.
Robert Howie Fisher, M.A., B.D.
Alexander Lawson, M.A., B.D.
Professor Giovanni Luzzi, D.D.,
Florence.

1906.

Archibald Fleming, M.A.
George Clark Hutton, D.D.
John Chisholm Lambert, M.A.,
B.D.
James Cameron Lees, D.D.,
LL.D.
William Mitchell Ramsay, D.C.L.,
LL.D., Litt.D.
Robert Walter Weir, M.A.

1907.

Francis Crawford Burkitt, M.A.,
F.B.A.
David Miller Kay, M.A., B.Sc.,
B.D.
John Kelman, M.A.
John Young, M.A.

1908.

Ellis Edwards, M.A.
Hugh Ross Mackintosh, M.A.,
D.Phil.
William Robertson, M.A.
Alexander Smellie, M.A.

1901.

J. Richardson Illingworth, M.A.
David Morrison Ross, M.A.

1902.

James King Hewison, M.A.
James Jeffrey, M.A.
Edward Sell, B.D.
Andrew Harper, B.D.

1903.

John Shaw Banks.
James Kennedy, M.A., B.D.
W. St Clair-Tisdall, M.A.

1909.

John Brown, M.A., B.D.
William Fairweather, M.A.
James Hope Moulton, M.A.,
D.Lit.
Andrew Blair Wann, M.A., B.D.

1910.

K. C. Chatterji, D.D.
George Gardiner, M.A., B.D.
John Henry Jowett, M.A.
Professor Harry Angus Alexander
Kennedy, M.A., D.Sc.
W. Douglas Mackenzie, M.A.,
D.D.
Professor John Wood Oman,
M.A., B.D., D.Phil.
F. L. Hawks Pott, D.D.
Julius Richter, D.Th.
Canon C. H. Robinson, M.A.
Robert E. Speer, M.A.
R. Wardlaw Thompson, B.A.,
D.D.
Lic. J. Warneck.

1911.

Canon George Albert Cooke,
M.A., D.D.
George Galloway, M.A., B.D.,
D.Phil.
Robert Law, M.A., B.D.
David Scott, M.A., B.D.
Robert S. Simpson, M.A.

1912.

Andrew Benvie, M.A., B.D.
 John Fraser Grahame, M.A., B.D.
 Principal E. Griffith-Jones, B.A.
 Professor J. Macphail Russell,
 M.A.
 George Steven, M.A.

1913.

The Hon. Arthur Gordon, M.A.
 Professor Wilhelm Herrmann,
 D.Th.
 Charles Jerdan, M.A., LL.B.
 Geo. Marjoribanks, B.D.
 Adam C. Welch, B.D., D.Th.

DEGREE OF DOCTOR OF LAWS (LL.D.).

The Degree of Doctor of Laws is conferred *honoris causâ tantum*. It was first granted in 1695. Previously to 1751 it had been conferred on seven persons only. Since then, several hundreds of names, including some of the most distinguished in Europe, have been added to the list. The degree is not conferred in absence except in very special cases.

1889.

E. Haeckel.
 William Mackintosh, M.A., Q.C.
 Maurice Paterson, B.A.
 James Ward, M.A., D.Sc.

John Rhys, M.A.

His Excellency General the Right
 Hon. Lord Roberts of Candahar,
 G.C.B., etc., etc.
 Alexander Moody Stuart.

1890.

Right Hon. Henry Chaplin, M.P.
 Sir Dyce Duckworth, M.D.
 Sir John Kirk, M.D., G.C.M.G.
 John Marshall, M.A.

1894.

W. H. Gaskell, M.D., F.R.S.
 Henry Goudy, M.A., LL.B.
 James Alexander Russell, M.A.,
 B.Sc., M.B., C.M.

1891.

Alexander Campbell Fraser,
 D.C.L., LL.D.
 Colonel Sir Colin Campbell Scott
 Moncrieff, K.C.M.G., C.S.I.

1895.

Rev. William Cunningham, M.A.,
 D.Sc., D.D.
 S. Weir Mitchell, M.D.
 Professor W. M. Flinders Petrie,
 M.A., D.C.L.

1892.

Surgeon-General James Macnabb
 Cunningham, M.D., etc.
 Rt. Hon. Sir Edward Fry.
 Dr Jakob Schipper.
 Hon. Sir Charles Tupper, Bart.,
 G.C.M.G., C.B., M.D.
 Rev. Thomas Walker, M.A.

1896.

P. Hume Brown, M.A.
 John Alexander Stewart, M.A.
 David Duncan, M.A., D.Sc.

1893.

John Sutherland Black, M.A.
 Henry Duncan Littlejohn, M.D.,
 F.R.C.S. Edin.
 Alfred Marshall, M.A.

1897.

Prof. James Dewar, M.A., F.R.S.
 James Gairdner.
 John Rae, M.A.
 John Turnbull Smith.
 John Wyllie, M.D.

1898.

Horace T. Brown.
 Thomas Lauder Brunton, M.D.,
 D.Sc., F.R.S.
 John B. Bury, M.A.
 William J. Courthope, C.B., M.A.,
 D.Litt.
 Eugene Doyen, M.D.
 David Ferrier, M.D., LL.D.,
 F.R.S.
 Richard Burdon Haldane, Q.C.,
 M.P.
 Lord Kitchener of Khartoum.
 Theodor Kocher, M.D.
 William Osler, M.D., LL.D.
 Hon. Sir Walter Phillimore, Bart.,
 D.C.L.
 Thomas George Roddick, M.D.
 Herman Snellen, M.D.

1899.

Lord Balfour of Burleigh.
 Andrew C. Bradley, M.A.
 Caleb Frank Gates, D.D.
 Khan Bahadur Shams-ul-Ulama
 Moulavee Saiyid Muhammad Zia-
 ood-Deen Khan, Raees of Delhi.
 David F. Lowe, M.A.
 George Walter Prothero, M.A.,
 D.Litt.

1900.

Horatio Robert Forbes Brown, J.P.
 His Excellency the Hon. Joseph
 Hodges Choate.
 William Ritchie Sorley, M.A.
 Thomas Anderson Stuart, M.D.

1901.

Charles Alfred Cooper, F.R.S.E.
 Arthur John Evans, M.A., F.S.A.
 Rt. Hon. Sir Robert Bannatyne
 Finlay, K.C., LL.D.
 William Augustus Heard, M.A.

James Little, M.D., M.R.I.A.

James Moir.

Sir John Williams, Bart., M.D.,
 F.R.C.P.

1902.

Rt. Hon. Lord Alverstone,
 G.C.M.G.
 Rt. Hon. Herbert Henry Asquith,
 K.C., M.P.
 Rt. Hon. Sir Edmund Barton,
 K.C., G.C.M.G.
 Rt. Hon. Sir Robert Bond,
 K.C.M.G.
 John Cleland, M.D., D.Sc., F.R.S.
 Samuel Dill, M.A., Hon. D.Litt.
 Henry Austin Dobson, Esq.
 James Alfred Ewing, M.A., B.Sc.,
 F.R.S., M.I.C.E.
 Rt. Hon. Lord Grenfell, G.C.B.,
 G.C.M.G.
 Lieut.-Col. The Rt. Hon. Sir
 Albert Henry Hime, R.E.,
 K.C.M.G.
 Rt. Hon. Sir Wilfred Laurier,
 G.C.M.G.
 Sir William Macgregor, M.D.,
 K.C.M.G., C.B.
 Rt. Hon. Sir Joseph West Ridge-
 way, G.C.M.G., K.C.B., K.C.S.I.
 Arthur William Rücker, M.A.,
 D.Sc., F.R.S.
 Jacob Gould Schurmann, M.A.,
 D.Sc.
 Rt. Hon. Sir John Gordon Sprigg,
 K.C.M.G.

1903.

Hon. Sir Andrew Fraser, K.C.S.I.
 Sir John Jackson, F.R.S.E.
 Professor N. J. D. Kennedy, M.A.
 The Hon. Sir Henry Normand
 MacLaurin.
 Benjamin Neaves Peach, F.R.S.
 The Hon. Mr Justice Rampini.
 J. Maitland Thomson.

1904.

Samuel Henry Butcher, Litt.D.,
LL.D.
Right Rev. John Dowden, D.D.
Rev. Emeritus Professor Robert
Flint, D.D., LL.D.
The Hon. Sir Walter Francis
Hely-Hutchinson, K.C.M.G.,
G.C.M.G.
Alexander Macalister, LL.D.,
D.C.L., F.R.S.
John William Mackail, M.A.
The Right Hon. John Morley,
M.P., P.C., O.M., F.R.S.,
LL.D., D.C.L.
Rt. Hon. Andrew Graham Murray,
P.C., K.C.
Sir George Reid, LL.D., D.L.
The Hon. Hannis Taylor.
Professor William Thomson, M.A.,
B.Sc.

1905.

His Excellency M. Paul Cambon,
G.C.V.O., D.C.L.
Irving Howard Cameron, M.B.,
F.R.C.S. Eng. and Edin.
Dr Just Lucas-Championnière,
F.R.C.S. Edin.
Professor William Watson Cheyne,
C.B., F.R.C.S., F.R.S.
Sir Arthur Conan Doyle, M.D.
Francesco Durante, M.D., F.R.C.S.
Eng. and Edin.
Anton Freiherr von Eiselsberg,
M.D., F.R.C.S. Edin.
Sir Charles Eliot, C.B., K.C.M.G.
Professor Geo. A. Gibson, D.Sc.
William Stewart Halsted, M.D.,
F.R.C.S. Eng. and Edin.
John Hughlings Jackson, M.D.,
F.R.S.
William Williams Keen, M.D.,
LL.D., F.R.C.S. Eng. and Edin.
The Hon. Lord Kincairney.
Karl Gustav Lennander, M.D.,
F.R.C.S. Eng. and Edin.
J. Horace Round, M.A.
Sylvester Saxtorph, M.D., F.R.C.S.
Edin.

Frank J. Shepherd, M.D., F.R.C.S.
Edin.
Augustus D. Waller, M.D., F.R.S.
Colonel Sir Frank E. Young-
husband, K.C.I.E.

1906.

His Grace the Duke of Bedford,
K.G.
H. E. Senhor Antonio da Veiga
Beirão.
Alexander Graham Bell, M.D.,
LL.D.
H. E. Wirklicher Geheimer Rath
Dr E. von Bergmann.
Andrew Carnegie.
Sir Donald Currie, G.C.M.G.
David Christison, M.D.
H. E. Baron Descamps, D.C.L.
The Rt. Hon. The Earl of Elgin,
K.G.
Alexander Taylor Innes, M.A.
Sir Alexander R. Simpson, M.D.,
D.Sc.
Miss Louisa Stevenson.
Professor G. D. Thane, M.R.C.S.,
F.Z.S.
Professor W. C. Unwin, F.R.S.,
M.Inst.C.E.
H. E. Professor Augusto Pierantoni,
D.C.L.

1907.

Wm. Bayard, M.D.
The Rt. Hon. General Louis
Botha.
John Burnet, M.A.
David James Hamilton, M.B.,
F.R.C.S. & F.R.S. Edin.
The Hon. Leander Starr Jameson,
C.B., M.D.
Thomas M'Kie, M.A.
His Serene Highness The Prince
of Monaco.
The Hon. Frederick Robert Moor.
Sir John Tweedy.
The Hon. Sir Joseph Ward,
K.C.M.G.

1908.

James Ormiston Affleck, M.D.
 The Right Worshipful Richard
 Caton, M.D.
 The Right Hon. Lord Justice
 Farwell.
 Sir Norman Lockyer, K.C.B.,
 F.R.S., LL.D., D.Sc.
 Sir James Balfour Paul.
 Reginald Lane Poole, M.A., Ph.D.
 Andrew E. Scougal, H.M.I.S.
 Mon. Emile Senart.
 The Right Hon. Thomas Shaw,
 M.P., K.C.
 His Highness Sir Sawai Madho
 Singh Bahadur, the Maharaja of
 Jaipur, K.C.G.S.I., G.C.I.E.,
 G.C.V.O.
 Professor Ramkrishna Gopal
 Bhandarkar, C.I.E.

1909.

James Matthew Barrie, M.A.
 John George Bartholomew.
 Emeritus-Prof. A. Crum Brown,
 M.A., M.D., D.Sc., F.R.S.
 Professor William Burnside, M.A.,
 D.Sc., F.R.S.
 Alexander Carmichael, F.S.A.
 Madame Curie, Docteur ès
 Sciences.
 The Hon. Lord Dundas.
 Surgeon-General Sir Alfred Keogh,
 K.C.B.
 Professor C. H. Kronecker, M.D.,
 D.Sc.
 John Edwin Sandys, Litt.D.
 The Rev. Emeritus-Professor M.
 C. Taylor, D.D.
 The Right Hon. George Wynd-
 ham, M.P., D.C.L.

1910.

Chief Scout Lieutenant-General
 Sir Robert S. S. Baden-Powell,
 K.C.B., K.C.V.O.
 General James A. Beaver.
 The Lord Hugh Cecil, M.P.

Emeritus-Professor John Chiene,
 M.D., C.B.
 James Avon Clyde, K.C., M.P.
 The Right Hon. and Most Rev.
 Randall Thomas Davidson,
 G.C.V.O., D.D., D.C.L.
 The Rev. Tasuku Harada.
 Professor Matthew Hay, M.D.
 Sir Thomas Hunter, W.S.
 Emeritus-Professor John Kirk-
 patrick, M.A., Dr. Jur.
 Thomas Kirkup, M.A., Wimb-
 don.
 The Hon. Seth Low.
 His Excellency Commendatore
 Luigi Luzzatti.
 Professor Karl Meinhof, D.D.
 John R. Mott, Esq.
 Commander Robert Edwin Peary.
 Professor William H. Perkin, Ph.D.,
 M.Sc., F.R.S.
 Thomas Ross.

1911.

The Hon. John Abercromby.
 Sir John Anderson, G.C.M.G.
 Charles Bruce, Esq.
 Sir Thomas S. Clouston, M.D.
 Frank W. Dyson, Esq., F.R.S.
 Sir Walter Egerton, K.C.M.G.
 Sir William Gowers, M.D., F.R.S.
 Sir Everard Im Thurn, C.B.,
 K.C.M.G.
 Sir Charles A. King-Harman,
 K.C.M.G.
 James Mackenzie, Esq., M.D.
 The Rt. Hon. Sir Edward Patrick
 Morris, K.C.
 The Right Hon. Lord Justice
 Fletcher Moulton, F.R.S.
 Francis Grant Ogilvie, Esq., C.B.
 Sir Sydney Olivier, K.C.M.G.
 Charles W. C. Oman, F.S.A.
 Ernest Rutherford, F.R.S.
 His Highness The Maharaja
 Scindia of Gwalior, G.C.V.O.,
 G.C.S.I.
 Sir Alfred Sharpe, C.B.,
 K.C.M.G.

1912.

The Rt. Hon. The Earl of Minto,
K.G., G.C.M.G., G.C.S.I.,
G.C.I.E.

Professor H. B. Allen, M.D.
Lt.-Col. Fred. Bailey, R.E.
Professor J. Theodore Cash, M.D.,
F.R.S.

J. S. Flett, Esq., D.Sc.
W. Warde Fowler, Esq., M.A.,
D.Litt.

The Hon. Lord Johnston.
Professor W. C. M'Intosh, F.R.S.
Robert Munro, Esq., M.A., M.D.,
F.R.S.E.

Sir James Porter, K.C.B.
Sir Thomas Raleigh, K.C.S.I.
J. L. Robertson, Esq., M.A.,
LL.B.

Professor R. Ramsay Wright, M.A.,
B.Sc.

1913.

Walter B. Blaikie, Esq.
H. A. L. Fisher, Esq., M.A.
Thomas Gilray, M.A., Professor of
English.

Emeritus-Professor Greenfield.
Sir James Guthrie.
The Rt. Hon. Lord Justice
Hamilton.

Dr W. Allan Jamieson.
R. T. Omond, Esq., F.R.S.E.
John Stewart, Esq., M.B., C.M.
Geheimrat Professor F. Strass-
mann.

Professor J. Arthur Thomson,
M.A.
The Hon. James Wilson.

THE HONORARY DEGREE OF DOCTOR OF MUSIC (Mus.D.).

1899.

Hugo Riemann, Ph.D.

1910.

Frederic H. Cowen, Mus.D. (Camb.). | George Henschel.

HIGHER DEGREES IN ARTS AND SCIENCE

CONFERRED 1904—1913

DEGREE OF DOCTOR OF PHILOSOPHY (D.Phil.).

1904. John Wood Oman, M.A.
George Robert Thomson
Ross, M.A.

1905. John Davidson, M.A.

1906. Bruce M'Ewen, M.A., B.D.

1908. Thos. Miller Forsyth, M.A.

1910. George Freeland Barbour,
M.A.

1911. Thomas Gwynne Maitland,
B.A., M.A., B.Sc., M.D.
John M'Kellar Stewart, M.A.

1913. Tobias Ballot Muller, M.A.,
B.D.

DEGREE OF DOCTOR OF LETTERS (D.Litt.).

1906. William Porter.

1907. Joseph Jogendra Ghose, M.A.

1908. William Barron Stevenson,
M.A., B.D.

1909. Matthijs Pieter Rooseboom,
M.A.

1911. William Alexander Curtis,
M.A., B.D.

1912. Henry William Meikle, M.A.

1913. John Willcock, M.A., B.D.,
D.D.

DEGREE OF DOCTOR OF SCIENCE (D.Sc.).

In Pure Science.

1904.

Robert Henry Elliot, M.B., B.Sc.
 Charles Edward Fawsitt, B.Sc.,
 Ph.D.
 George Percy Leishman, B.Sc.
 Francis Hugh Adam Marshall,
 B.A.
 Thomas Swale Vincent, M.B.

1905.

Thomas Nelson Annandale, B.A.
 Alfred Archibald Boon, B.A., B.Sc.
 Orlando Charnock Bradley, M.B.,
 Ch.B.
 John Dow Fisher Gilchrist, M.A.,
 B.Sc.
 Alexander Lauder, B.Sc.
 Alfred Ernest Sprague, M.A.,
 B.Sc.

1906.

John Downie Falconer, M.A.,
 B.Sc.
 John Kenneth Harold Inglis, B.Sc.
 Samuel Morell Johnston, B.A.

1907.

William Cramer, Ph.D.
 James Robert Milne, B.Sc.
 John Tait, B.Sc., M.D.
 Clerk Ranken, B.Sc.
 Theodore Rettie, B.Sc.
 George Robertson, B.Sc., Ph.D.

1908.

Charles Anderson, M.A., B.Sc.
 George Alexander Carse, M.A.,
 B.Sc.
 Thomas Oliver, B.Sc.
 Joseph Henry MacLagan Wedder-
 burn, M.A.

1909.

Alexander Ninian Bruce, B.Sc.
 James Andrew Gunn, M.A., B.Sc.,
 M.D.
 Peter David Innes, M.A., B.Sc.
 James Patrick Longstaff, B.Sc.
 Henry Walker, M.A., B.Sc.

1910.

John Trotter, B.Sc.
 Forsyth James Wilson, B.Sc.,
 Ph.D.
 Thomas John Ireland Craig, B.Sc.
 John Alex. Hope Johnston, M.A.

1911.

Robert Campbell, M.A., B.Sc.
 William Thomas Gordon, B.A.,
 M.A., B.Sc.
 William Adam Jolly, M.B., Ch.B.
 Archibald Currie MacGilchrist,
 M.D. (Capt. I.M.S.).
 Robert Burns Young, M.A., B.Sc.

1912.

David Bain, B.Sc., M.Sc.
 John William Bews, M.A., B.Sc.
 Nanabhay Ardaseer Framji Moos,
 B.Sc.
 Robert Charles Wallace, M.A.,
 B.Sc., Ph.D.

1913.

Alexander Bremner, M.A., B.Sc.
 Bertha Chandler (Mrs C. Norman
 Kemp), M.A., B.Sc.
 Henry Otto Feiss, A.B., M.D.
 Alexander Barrie Grieve, M.A.,
 B.Sc.
 Robert Arno Krause, M.D.
 George Philip, M.A., B.Sc.
 Ernest MacLagan Wedderburn,
 M.A., LL.B.

In Engineering.

1909.
Peter Chalmers Cowan, B.Sc.

1910.
William Archer Porter Tait, B.Sc.

In Public Health.

1905.
Robert Martin Beattie, M.B., C.M.,
B.Sc.

1907.
George Henry Masson, B.Sc., M.D.
Owen St John Moses, B.Sc., M.D.

1906.
Thomas Finlayson Dewar, M.D.,
B.Sc.
Carstairs Cumming Douglas, M.D.,
B.Sc.

1909.
William Burney Bannerman, M.D.,
B.Sc. (Lt.-Col. I.M.S.).
Edward David Wilson Greig, M.D.,
B.Sc. (Capt. I.M.S.).

FACULTY OF ARTS

DEGREE OF MASTER OF ARTS (M.A.) with HONOURS,

Conferred 1904—1913.

The contractions Phil., Math., Eng., Mod. Lang., Hist., Econ. Sc., and Lat. and Fr. indicate the Departments or Groups of Mental Philosophy, Mathematics and Natural Philosophy, English, Modern Languages, History, Economic Science, and Latin and French respectively; and the Italic Numerals, i., ii., and iii. indicate First, Second, and Third Class Honours respectively.

1904.
Classics i., Alex. Falconer Giles.
Beatrice Somerville Brodie
M'Murtrie.
John Chas. Hirschfeld Macnair.
Gilbert Watson.
Classics ii., William Cowan Ogilvy
Barrie.
David Lynedoch Cattanaich.
Robert John Maule Horne.
Donald Matheson Maclean.
Chas. Babington Smith Monfries.
Gulielma Frances Sargood Peter-
son.

George Lingard Turnbull.
Maxwell MacLagan Wedderburn.
Classics iii., Elizabeth Maude Alex-
ander.
Norman David Mudie.
Fred Maurice Philip.
Phil. i., William Johnstone.
Phil. ii., Kenneth Edward.
John Kellie.
James Marshall Robertson.
Math. i., Alexander Howe Gardner.
Peter David Innes.
Archibald King.

Math. ii., Margaret Adamson.
 James Black.
 Henry Hewat Craw.
 James Todd Johnstone.
 George David Walker.
Math. iii., Alexander Cross Mallace.
Eng. ii., Charles Falconer Allan.
Mod. Lang. i., Grace Fergie.
 Arabella Sophia Furnell.
 Annie Reid Murray.
Mod. Lang. ii., David Halyburton
 Low.
 Marion Haworth Smith.
Hist. ii., Margaret Cuthbertson
 Aitken.
Econ. Sc. ii., Agnes Jane Monteath.

1905.

Classics i., Walter Carter.
 Alexander Keith Jameson.
 John Cormack M'Kenzie.
 James Cameron Stewart.
 Thomas White.
Classics ii., John Mackenzie Glen.
 John Jackson.
 William Joseph Cornwall Laurie.
 Philip William Lilley.
 Alastair Duncan Atholl Mac-
 Gregor.
 Hubert William Strathairn.
Classics iii., John Pinkerton.
 George Young.
 Arthur Robert Gow M'Millan.
Phil. i., George Freeland Barbour.
Math. i., Barbara Ritchie Annan
 Brown.
 Jessie Forbes Cameron.
 John Brown Marshall.
 Duncan Royston Matheson.
 Alexander Johnson Merriles.
Math. ii., George Dunn.
 William Somerville Millar.
Eng. i., William Ferrier.
 Donald Tolmie Mackintosh.
 Adam Blyth Webster.
Eng. ii., Thomas Smith Crichton.
 Thomas Crockett.
 James Munro.
 Elizabeth Harley Cunningham
 Pagan.

Mod. Lang. i., Lilius Brownlee,
 Howden.
 Joanna Elizabeth Levack.
 Mary Cameron MacCallum.
 Jane Bathurst Thomson Mac-
 donald.
 Alexander Sandeman Robertson.
 Margaret Kinmont Ross.
 Alexander Frederick Whyte.
Mod. Lang. ii., Mary Black.
 Maggie May Drever.
 Margaret Ann Falconer.
 Margaret Finlayson Gilmour.
 Alice Marjory Jones.
 John Proudfoot Macgregor.
 Jenny Sellar Wingate.

Mod. Lang. iii., David Young
 Anderson.
Hist. i., Thomas Robert Gardiner.
 James Munro.
Hist. ii., William Veevers.
 Ganesh Sadashiva Bhaté.
Econ. Sc. i., Thos. Robt. Gardiner.
Nat. Sc., James Clark.

1906.

Classics i., John Craigie Cunningham.
 William Chalmers Douglas.
 George Simpson Duncan.
 John Wood Nelson.
 William Mitchell Smail.
 James Turner.
Classics ii., George Keith Drimmie.
 William Dey Fyfe.
 Henry Duncan Graves Law.
 Margaret Simpson Johnstone
 Maybin.
 George Seaton Robertson.
 Donald Miller Watson.
 John Kerr Wylie.
Classics iii., Agnes Blacklay.
 James Arthur Coullie.
 Henry Douglas Irvine.
 George Morris.
Phil. i., George Ewan.
Phil. ii., David Coventry Wilkie.
Phil. iii., John Polson.
Math. i., Herbert Bell.
 David Gibb.
 John Harkess.
Math. ii., Jas. Mason.

Math. iii., William Thomas Gordon.
 Robert M'Intosh.
 Hugh Bryden Murdoch.
Eng. i., Jeanie Paterson Duffes.
 William Falconer.
 Rudolf Pintner.
 James Alexander Roy.
Eng. iii., Andrew Young.
Mod. Lang. i., Margaret Kennedy.
 Jean M'Kenzie Laurie.
 Evan mor MacColl.
 Nannie M'William.
Mod. Lang. ii., Jean Carlisle Bowie.
 James Donaldson.
 Flora Watson Fullarton.
 Julia Minnie Charlotte Waltenberg.
Hist. i., John Davidson.
Hist. ii., Henry Duncan Graves Law.
Econ. Sc. i., John Wood Nelson.
 David Coventry Wilkie.
Econ. Sc. ii., Stanley Buchanan Carey.

1907.

Classics i., John Gordon Laing.
 Arthur Stanley Reid.
 Thomas George Rutherford.
 Walter Haig Stevenson.
 Alexander Charles Stewart.
Classics ii., Ernest Ian Denoon.
 Frederic James Hamond.
 John Jopp Latta.
 Duncan MacOwan.
 Francis Warrack Reid.
 Hugh Gallie Scott.
 Mary Ann Jane White.
Classics iii., Margaret Grace Mackay.
 James Alan Cameron Murray.
 David Tait.
Phil. i., Kenneth Ian MacIver.
 James Henderson Rust.
Phil. ii., Peter Adamson Beveridge.
 Robert Macgregor.
 John Roderic M'Kenzie.
Phil. iii., James Wales Cameron.
Math. i., John Alexander Strang.
 Lewis James Barnetson Turner.
 William Watson.
 Robert Wilson.

Math. ii., Wm. Grieve.
 Thomas Alexander Lindsay.
 Francis James Smith.
 Jeannie Barbara Thomson.
Eng. i., And. M'Millan Carmichael.
Eng. ii., Gilbert Innes Kilgour.
 Norman Macleod.
 Charlotte Ethel Roberts.
 Annie Muriel Waugh.
Eng. iii., William M'Gagie.
Mod. Lang. i., Margaret Ariadne Couling.
 Christina Mary Maclean.
 Helen Falconer M'Naughton.
 Charles Jasper Sisson.
Mod. Lang. ii., Nettie Clark.
 Florence Theresa Jameson.
 David Boughton Walker.
Hist. i., John Ewing.
 Edwin Ernest Enever Todd.
 James Eadie Todd.
 John Lawrence Watson.
Hist. ii., William Richard Cooper.
 Clementina Mary Gordon.
Econ. Sc. i., Robert Leslie.

1908.

Classics i., James Brown.
 Roderick M'Kenzie.
 Thomas Steele.
 John Mackay Thomson.
Classics ii., William Sinclair Baxter.
 Martin Cameron Comrie.
 Ethel Annie Craigie.
 Alexander Austin Elder.
 Charles Mansfield Ewing.
 Sidney Cramond Miller.
 Robert Brown Soutar.
Classics iii., Neil Adam MacLean.
Phil. i., Thomas Anderson.
 John Baillie.
 John Laird.
Phil. ii., William Wallace Dunlop Gardiner.
 John Hubert Jagger.
Phil. iii., Geo. Joseph.
Math. i., Wm. Brown.
 Alexander M'Donald Crawford.
 Alfred John Gray.
 Alexander Barrie Grieve.
 Robert Balfour Steele.
 Thomas Alexander Stewart.

Math. ii., Herbert Grant Cumming.
 William Forbes, B.Sc.
 John Andrew Hardie.

Eng. i., Julien Jacques Champenois.

Eng. ii., Alice Abram.
 William Carnon.
 Archibald John Cunningham.
 Alice Ann Smith.
 Mary Clara Somerville.

Mod. Lang. i., Jean Stuart Beattie.
 Catherine Anne Cameron.
 Edith Mary Carrie.
 Margaret Hutton M'Bean.
 Margaret Davidson Roberts.
 Jessie Sprunt.

Mod. Lang. ii., Elspeth Gilchrist.
 May M'Kown Hogg.
 Margaret Eleanor Hunter.
 Elizabeth Lunan Ross.
 Mary Anderson Inglis Ross.
 Mary Shirlaw.
 Marion Smith Simson.
 Andrew Hamilton Taylor.

Hist. ii., Ida Mary Law.

Hist. iii., Vaman Vishnu Phadke.

Econ. Sc. i., Neil Adam MacLean.

1909.

Classics i., John Young Campbell.
 Walter Scott Clark.
 Barbara Margaret Craw.
 William Hendry.

James Hutton.
 Mary Kelman Mills.
 Margaret Kinmont Tennant.

Classics ii., Vincent Cassels Alexander.

William Bruce.
 George Leslie Marshall.

Classics iii., Bernard Henry Herford.

Andrew Young.

Phil. i., John Fraser Adam.
 Donald Macpherson Baillie.
 Robert Ross.

Phil. ii., Mary Theodora Colville.

Phil. iii., Esther Gertrude Bell.
 George Aitchison Henderson.

Math. ii., Jibon Mohan Bose, B.Sc.
 Alexander Farmer Ewan.

Ann Sanderson Haig.
 Cornelius Hope.
 David Kennedy-Fraser, B.Sc.
 Adam Wilson Moodie.
 Robert Alexander Sinclair.
 Erskine Douglas Williamson
 B.Sc.

Math. iii., Norman Izat.
 Margaret Dixon Miller.

Eng. i., Edward Albert.
 Gordon Hislop.
 Hugh Marwick.

Eng. ii., Evelyn Eliza Paterson
 Duffes.

Ernest Hope Lamb.
 May Cochrane Hunter Lawson.
 Joseph Alexander Rae.
 Mary Catharine Smith.
 Janie Carruthers Stewart.

Eng. iii., Elizabeth Duncan Weir.

Mod. Lang. i., Ruth Elvira Clark.
 Rachel Porteous Laing Fraser.
 Annie Watson.
 Sophia Isabella Younie.

Mod. Lang. ii., Hugh Morison
 Miller.

Annie Claire Nelson.
 Isabella Mackay Scott.
 Jane Hamilton Bruce Wilkie.

Mod. Lang. iii., Robert Blair
 Forrester.

Nora Mackay.

Hist. i., Alec Williamson.

Hist. ii., Maximilian Friedrich
 Liddell.

William Robert Walker.

Hist. iii., Godfray William Herbert
 Davies.

Econ. Sc. ii., Robt. Blair Forrester.
 William Muter Leggate.

Econ. Sc. iii., Mudiyl Kesava
 Padmanabha Pillai.

1910.

Classics i., Robert Allan Cameron.
 Matthew George Fisher.
 Christina Keith.
 Jeffrey Blackstock M'Glashan.
 James Johnstone Maybin.

Classics ii., Alexander Cameron
Badenoch.

George Brotherston.
John Spenser Jolly.
Alec Graham Scougal.

Classics iii., Jane Binnie Hunter.
William Dallas Jamie.

Phil. i., Alan James Dorward.
Phil. ii., Archibald Campbell Craig.
Phil. iii., Robert Westlands Leckie.
Math. i., Archibald Wallace William-
son Bain.

Robert Graham Harris.
Eric Schacht.
Alexander Mitchell Williams.
Duncan Kippen Wilson.

Math. ii., Thomas John Cunnison.
Francis Mackay Dickson.
Archibald Barr MacLean.
Eric Milroy.
Barclay Brown Murdoch, B.Sc.
John William Tait.

Math. iii., Francis George Deans.
Frederick William L'Amie.

Eng. i., Gairdner White Hendrie.
Margaret Anne Mackenzie.
James Kyd Thomson.

Eng. ii., Percy Charles Gaskin.
Lois Hastings.
James Bertram Naismith.
Catherine Christian Robertson.
Jean Moffett Speedy.
Ada Janet Allan Watson.
Annie Aird Wyllie.

Eng. iii., Hugh Stewart Walker.

Mod. Lang. i., Adelaide Mary
Galletly.
Jessie Margaret Hunter MacCaig.
Jane Johnston Milne.
Alexandrina Murray.

Mod. Lang. ii., Agnes Leslie
Anderson.

Ann Eliza Mabel Beaton.
Margaret Coutts.
Mary Yool Henderson.
Bessie Jemima Keith.
Sara Johns Inches Lawson.
Elizabeth Helen Irons Millar.
Margaret Munro Monaghan.
Elspeth Ross Shearer.

Mod. Lang. iii., Donald Grant.
Alice Leonard Leith.
Gilbert Cameron Mowat.
Eleanor Alice Moffat Turnbull.

Hist. i., Edward Sawers.
John Vivers.

Hist. ii., Thomas Howden Fraser.

Hist. iii., Edith Kate Chandler.

Fcon. Sc. i., Thos. Howden Fraser.
Thomson Sinclair Mackie.
Mary Theresa Rankin.

1911.

Classics i., Robert Culbertson.

Colin Edward Cumming.
James Bennett Guild.
Duncan Campbell Macgregor.
Olaus M'Leod Martin.
John Alexander Maybin.
Arthur Nesbitt Strong.

Classics ii., George Brown Barbour
Patrick Hamilton Borrowman.
Grace M'Kenzie Hodge.
Philip Charles Lempriere.
Alec Bain Tonnochy.

George Hamilton Williamson.

Classics iii., Thomas Couston.

Alfred Ernest Warr.

Phil. i., Olaus M'Leod Martin.

Phil. ii., William Ronald Dodds
Fairbairn.

Math. i., David Wilkie Cameron.

James Andrew Donaldson.

Margaret Christina Fraser.

John Gibson Gibson.

Thomas Greig Ironside.

Hyman Levy.

John Mackie.

Andrew Nelson.

Charles William Blyth Normand.

Francis Spalding Warden Thom-
son, B.Sc.

Grace Tennant Thomson.

Robert Vickers.

Math. ii., Margaret Love Muir.

Math. iii., Andrew Buchan Dea.

Eng. i., Marjorie Amelia Bald.

Catherine Macdonald Maclean.

Winifred Marjorie Macrae.

James Murray Watson.

Alson Walker Shiels.

Eng. ii., Georgina Stewart Dalgleish.
 Alfred Daniel.
 James Brown Kincaid.
 Charlotte Montgomerie Mac-
 alister.
 Elizabeth Henderson Macdonald.
 William Mill.
 Jessie Henrietta Margaret Roy.
 William Fowler Templeton.

Mod. Lang. i., Mary Burns.
 Mabel Duff Curtis.
 Annette Anderson Hunter.

Mod. Lang. ii., Mary Elizabeth
 Montgomerie Bell.
 Margaret Elizabeth Bremner
 Cameron.
 Philippe Charles Guillaume le
 Harivel.
 Catherine Macrae.
 Agnes Inglis Wilson Shields.
 Helen Stewart.

Mod. Lang. iii., Margaret Dunn.
 Alison Trail Montgomery.

Hist. i., John Alexander Calder.
 Henry Hall Norton.

Econ. Sc. iii., Jas. Allister M'Gregor

1912.

Classics i., James Richard Blair.
 Duncan John Cameron.
 Alexander Campbell.
 Thomas Mackay Cooper.
 Robert Kerr.
 Edwin Gray M'Hutchon.
 James Braid Taylor.

Classics ii., Norman Duncan Cuth-
 bertson.
 Robert Douglas James Stevenson
 Fenton.

Joseph Henry Trestrail Kilgour.
 John Stewart Macbeth.
 George Taylor Pringle.
 Alice Elizabeth Stirling.

Classics iii., Edward John Howard
 MacIldowie.
 George Arthur MacKenzie.
 James Alexander Reid.

Phil. i., Harold Foster Hallett.

Phil. ii., Frank Ryrie.

Phil. iii., Henry Nicoll Forbes.

Math. i., Isaac Eban.
 William Gillon.
 George Shearer.
 Robert Scott Wishart.

Math. ii., John Petersen Gunn.
 William Innes.
 William Jardine.
 William Liddell.

Eng. i., Robert Finlay Gerrard.
 Harry Sellers.

Eng. ii., May Beale.
 Christina Bertram Brownlee.
 Annie Muriel Carrie.
 Ogilvie Paterson Duffes.
 Ethel Jane Clark Ewan.
 Norman Bruce Lothian.
 Edward George M'Alpine.
 Edith Jane Masterton.
 Alexander Sutherland Neill.
 Elfreyda Maud Clouston Porteous
 Katharine Noël Wilson.

Eng. iii., Margaret Munro Davidson.
 Drummond Ferguson Greenslade.
 Ena Rose Mackenzie.

Mod. Lang. i., Marie Louise Barker.
 Dorothy Catherine Cuthbertson.
 Eleanor Livingston.
 Ella Lamont Ritchie.
 Muriel Smith.
 Mary Veitch.

Mod. Lang. ii., Jeannie Robertson
 Buchanan Carmichael.
 Alice Heriot Douglas.
 Agnes Fullarton.
 Margaret Ritchie Galloway.
 Renè Pierre Legros.
 Robert Herdman Pender.
 Janie Keay Stuart.

Mod. Lang. iii., Anne Middleton
 M'Diarmid.
 Maurice Arthur Stokes.

Hist. i., Margaret Isabella Adam.
 Arthur Birnie.

Hist. ii., John Norrie Anderson.
 William Scott Douglas.
 Janet Girdwood MacGregor.
 Samuel Rae.
 Arthur Allen Waugh.

Hist. iii., Jas. Roy Stephens Young.

1913.

- Classics i.*, William Dickie.
 Thomas Hope.
 Margaret Black Martin.
 Daniel Stalker.
- Classics ii.*, Andrew Thomas Cluness.
 Charles Francis Crichton.
 Agnes M'Kendrick.
 John Snaddon Thomson.
 William Andrew Thomson.
- Classics iii.*, Arthur Gore Collinson.
 Janet Hutchison.
- Phil. i.*, Harold Luck.
- Phil. ii.*, Alfred James Mackenzie.
 Walter Simpson.
- Math. i.*, Edward Lindsay Ince.
 William Wither M'Clelland.
 William George M'Ewen.
 John David M'Beath Ross (B.Sc.).
 Robert Stark.
 Alexander Smith Tennant.
 Andrew White Young.
- Math. ii.*, John Gall.
 James Kilgour.
 John Forbes Walker.
- Math. iii.*, John Millar Maxwell.
- Eng. i.*, John Malcolm Macpherson.
 Archibald Turnbull.
 Isabella Watson.
- Eng. ii.*, Dorcotea Anderson.
 Christina Somerville Baillie.
 Evelyn Margaret Buchanan.
 Beatrice Elizabeth Coutts.
 John George Gunn Cuthbert.
 Dorothy Dawson Forster.

- William Allan Forsyth Hepburn.
 Joseph Sim Husband.
 Jessie May Jack.
 George Scrimgeour Maxton.
 Lucy Milton Norton.
 John M'Lellan Stewart Paterson.
 Margaret Finlay Purves.
 Harold James Seymour Reavely.
 William Tulloch.
- Eng. iii.*, Maybel Margarita Benvie.
 John Paris.
- Mod. Lang. i.*, Jenny Pearson
 Cunningham.
 Margaret Dickie Howie.
 Margaret Sime Hutt.
 Jean Keith Leslie.
 Mary Somerville Sanderson.
 Annie Scott Taylor.
 Mary Lewars Williamson.
- Mod. Lang. ii.*, Caroline van der
 Briele.
 Elizabeth Hardie Ireland.
 Alexander Linton.
- Mod. Lang. iii.*, Agnes Buyers.
 Anna Nelson Ferrie.
 Jean M'Naught.
 Margaret Sutherland Welsh.
- Hist. i.*, Alexander Balfour Hare.
 David Brown M'Alpine.
- Hist. ii.*, Edith Margaret Chrystal.
 Hyndmer Rutherford Dunn.
 Daisy Mackay.
 Allan Lindsay Walker.
 Ronald Rosselet Whitcombe.
- Econ. Sc. i.*, George Clarke
 Lawrence.

HONOURS OBTAINED AFTER GRADUATION, 1904—1913.

1904.

- Classics ii.*, James Jackson.
- Eng. i.*, Henry William Meikle.
- Eng. ii.*, Alexander Mitchell.
- Mod. Lang. i.*, Jeanie Bell Smith.
- Mod. Lang. ii.*, Edith Robertson
 Riach.
- Mod. Lang. iii.*, Jessie Ann Menzies.
- Econ. Sc. ii.*, George Milne Harper.
 Samuel Hunter.

1905.

- Phil. ii.*, James Ferguson Nicoll.
- Eng. ii.*, Lizzie Murray Moyes
 Adams.
 Alexander Jamieson Ross.
- Eng. iii.*, David Henderson.
- Econ. Sc. i.*, Alexander Gray.

1906.

- Eng. ii.*, Thomas Hutton Heddle.
Mod. Lang. iii., Barbara Ritchie
 Annan Brown.
Hist. i., William Dobbie Ritchie.
 Alexander Robertson.
Hist. ii., Alexander Mitchell.
Econ. Sc. i., James Munro.

1907.

- Eng. i.*, John Bell.
Eng. ii., William Lonie Fraser.
Mod. Lang. ii., Jennie Elizabeth
 Dalgleish.
Econ. Sc. i., John Mackenzie Glen.
 William Joseph Cornwell Laurie.
 George David Walker.

1908.

- Eng. i.*, Alister John Stewart.
Eng. ii., Frank Ritchie Blair.
Hist. ii., Norman Macleod.

1909.

- Classics iii.*, John Maxwell Edgar.
Eng. i., George Simpson Marr.
Mod. Lang. ii., Isabella Alison Allan.
Econ. Sc. i., Thos. Geo. Rutherford.

1910.

- Eng. ii.*, Jean Aitken.
 Rachel Brown Campbell.
 Ian Duncan Duff.

- Mod. Lang. ii.*, Mary Stewart Miller
 (allowed extension under section iii, Honours, of "Additional Regulations").

1911.

- Classics ii.*, Geo. Allison Lawrence.
Phil. i., John Macdonald.
Phil. ii., Donald Ross.
Eng. i., Hugh Morison Miller
 (allowed extension).
Mod. Lang. ii., Naomi Logan Black.
Hist. ii., Frederick William Duguid
 Stewart.
Econ. Sc. ii., Samuel Grant Mellis
 Smith.

1912.

- Classics ii.*, John Alexander Mac-
 kenzie.
Phil. i., John Alexander Calder.
Eng. i., Jesssie Robertson Thom-
 son.
Hist. i., William Bain Gray.
Econ. Sc. i., James Bennett Guild.
Econ. Sc. ii., David Kemp.

1913.

- Hist. i.*, James Braid Taylor.
Hist. ii., Edward Hare.
Lat. and Fr. ii., Jane Johnston
 Alder.

FACULTY OF LAW.

BACHELORS OF LAWS (LL.B.) who graduated with distinction, 1904—1913.

1904.

- William Dunbar, M.A.
 James M'Caig, M.A.
 Alfred Ebenezer Spence Thomson,
 M.A.

1905.

- Robert Jack Dykes, M.A.
 William Scott, M.A.
 Ernest Henry Wishart, M.A.

1906.

- Craigie Mason Aitchison, M.A.
 John Hope Campbell, M.A.
 George Smith, M.A.

1907.

- Wm. Alex. Scott Douglas, M.A.
 Wm. John Mercer Dunlop, M.A.
 William Lowson, M.A.
 George Muir Thornton, B.A.

1908.
Joseph Alphonsus de Rozario,
B.A.

1909.
Gordon James Lethem, M.A.
Robert Mackay Munro, M.A.
Andrew Myles, M.A.
Hugh Gallie Scott, M.A.
John Small, M.A.
William Wilson, M.A.
John Kerr Wylie, M.A.

1910.
Edwyn Oswald Inglis, M.A.
William Robert Benny M'Jannet,
B.A.

Wilfrid Guild Normand, B.A.
Daniel M'Intyre, M.A.

1911.
Harry Henderson Monteath, M.A.
James Graham Ross, M.A.
Donald Boase Sinclair, B.A.
Walter Haig Stevenson, M.A.

1912
James Little Mounsey, B.A.
Alexander Low Mustard, M.A.
John Prosser, M.A.

1913.
Vincent Connell Bruce, B.A.

**BACHELORS OF LAW (B.L.) who graduated with
distinction, 1904—1913.**

1904.	1906.	1909.
John Falconer, M.A.	Archibald Hutcheon, M.A.	David Marshall, M.A.

FACULTY OF MEDICINE.

DOCTORS OF MEDICINE (M.D.)

Awarded GOLD MEDALS for their Theses. 1904—1913.

1904.
Thomas Lowe Bunting.
John Cameron.
William Hogg Prentice.

1905.
Wm. Elliot Carnegie Dickson, Scot.
John Eason.
Duncan Campbell Lloyd Fitz-
williams.
Andrew Alexander Hall, Scotland.
Benjamin Philp Watson, Scotland.

1906.
Edward Fawcett, England.
Edward Bald Jamieson, Scotland.
James Mathieson Kirkness, Scot.
Charles John Shaw, Scotland.
William Cameron Sillar, England.
John Tait, Scotland.

1907.
Leslie Newton Hesketh Biggs,
India.
James Andrew Gunn (M.A., B.Sc.),
Scotland.
James Lochhead (M.A., B.Sc.),
Scotland.
Stuart M'Donald, Scotland.
Hugh Angus Stewart, Scotland.
Henry Wade, Scotland.

1908.
James Walker Dawson, Scotland.
Auckland Campbell Geddes, Scot.
Edwin Matthew (M.A.), Scotland.
Lindsay Stephen Milne, Scotland.
James Alexander Murray (B.Sc.),
Scotland.

1909.

George Francis Stirling Landon,
England.
William Macdougall (M.A.), Scot.
Archibald Currie Macgilchrist
(M.A.), Scotland.
John Pool M'Gowan (M.A., B.Sc.),
Scotland.
Alistair Thomas Mackenzie (M.A.),
Scotland.
Chas. Fulton Pattie, New Zealand.

1910.

George Carmichael Low (M.A.),
Scotland.
William Kelman Macdonald, Scot.
William M'Donald Scott, Scotland.
William Halliday Welsh, Scotland.
James Young, Scotland.

1911.

William Boyd, Scotland.
Alexander Ninian Bruce (D.Sc.),
Scotland.
Kenneth Mackenzie, New Zealand
Samuel Alexander Kinnier Wilson
(M.A., B.Sc.)

1912.

Thomas Graham Brown, B.Sc.,
Scotland.
John Kolbe Milne Dickie, Scotland.
John Fraser, Ch.M., Scotland.
Thomas Grainger Stewart, Scotland.

1913.

Oliver Henry Blacklay, M.D.
William Ewart Bullock, B.Sc., M.D.
George Matthew Robertson, M.D.
George Duncan Whyte, M.D.

MASTERS OF SURGERY (Ch.M.)**Awarded GOLD MEDALS for their Theses, 1904—1913.**

1909.

David Percival Dalbreck Wilkie, Scotland.

1910.

John Fraser, Scotland.

1911.

Alexander Pirie Watson (M.A.), Scotland.

1913.

Alexander Philp Mitchell, M.D., Ch.M.

**BACHELOR OF MEDICINE AND MASTER IN SURGERY
(M.B., C.M.) who Passed the Examinations with HONOURS.**1905.—*Class II.*

George Arthur Grierson, Scotland.

**BACHELORS OF MEDICINE AND BACHELORS OF SURGERY
(M.B., Ch.B.), who have Passed the Examinations with
HONOURS, 1904—1913.**

1904.

Class I.

William James Fraser, Scotland.
Ephraim Henderson (M.A.), Scot.
James Lochhead (M.A., B.Sc.),
Scotland.
John Pool M'Gowan (M.A.), Scot.

Class II.

Robert Balfour Barnetson, Scot.
David Brown, Scot.
Hugh Clive Buckley, India.
Robert Alexander Chambers, Ire-
land.
Arthur Mitchell Dryden, Scotland.

Jules Michael Ralph Flament,
Trinidad.

Louis Fourié, Cape Colony.

Hugh Ross Macintyre, Scotland.

Thomas Nicol (M.A.), Scotland.

Arthur Charles Strain, Scotland.

1905.

Class I.

Duncan M'Farlan Barker, Scotland.

Charlotte Rose Greenfield, England.

Jas. Andrew Gunn (M.A., B.Sc.),
Scotland.

Peter M'Ewan (M.A.), Scotland.

Charles M'Neil (M.A.), Scotland.

William Joseph Maloney, Scotland.

Harold Ernest Rawlence, England.

Johannes Zacharias Human Rous-
seau (B.A.), Cape Colony.

William M'Donald Scott, Scotland.

James Young, Scotland.

Class II.

Herbert Macpherson Cargin, Ire-
land.

James Mollison Dickson, Scotland.

Robt. Skeoch Frew, Newfoundland.

Geo. Douglas Mathewson (B.Sc.),
Scotland.

Philip Seston Vickerman, New
Zealand.

Henry Everly Arthur Washbourn,
New Zealand.

1906.

Class I.

Sydney Taylor Champaloup,
New Zealand.

Alan MacDonald Dick, Scotland.

Alexander Murray Drennan, Scot.

James Sutherland Edwards, India.

Thomas Baillie Johnston, Scot.

William Tasker Adam Jolly, Scot.

William Omand Sclater (B.Sc.),
Scotland.

Alexander Dron Stewart, Scotland.

Class II.

Frank Blamire, England.

Thomas Graham Brown (B.Sc.),
Scotland.

Arnold Davies (B.A.), Wales.

Samuel Slimmon Dykes, Scotland.

John Williamson Frew, Scotland.

William M'Alpine Pollock Hen-
derson (M.A., B.Sc.), Scotland.

Archibald George Kirwood Ledger,
England.

John William Scott Macfie (B.A.,
B.Sc.), England.

John Norman M'Turk, England.

George Pollock, Scotland.

Claude Pycroft, England.

Alexander Waugh Young, England.

1907.

Class I.

George Henderson, Scotland.

Robert Hillhouse Jamieson, Scot.

Thomas Arnold Johnston, Ireland.

John Joseph Harper Nelson, Scot.

Chas. Fulton Pattie, New Zealand.

Chas. August Thelander, Australia.

David Thomson, Scotland.

Class II.

John Budge Alexander, M.A.,
Scotland.

John Caradoc Ashton, Wales.

Albert Edward Bennee, South
Africa.

Pieter Abraham Euvsard, Cape
Colony.

John Fraser, Scotland.

Douglas James Guthrie, Scotland.

John Howard Horne, Scotland.

Rory Eric M'Laren, Scotland.

William James Porteous, Scotland.

Dewan Hakumat Rai, M.A., India.

David Robertson, Scotland.

James Leitch Wilson, Scotland.

1908.

Class I.

Lydia Dorothy La Trobe Bateman,
England.

John Findlay, Scotland.

Alexander Gibson, M.A., Scotland.

Joseph Godwin Greenfield, B.Sc.,
Scotland.

Kenneth Mackenzie, New Zealand.

John Marshall, Scotland.

John Scott, Scotland.

John James Thomson, Scotland.

Class II.

Richard Charles Alexander, M.A.,
Scotland.
Andrew Russell Bearn, England.
James Crawford Craig, M.A., Scot.
Peter Gorrie, Scotland.
John Charles Boileau Grant, Scot.
Frederick William Hay, India.
William Mackenzie Macnab, Scot.
Waldemar Bartholin Sommers,
New Zealand.
Joseph Edward Spence, England.
John Gordon Thomson, M.A.,
Scotland.
Lancelot Edward Barrington Ward,
England.
Alexander Pirie Watson, M.A.,
Scotland.
Hugh Ballingall Watson, M.A.,
Scotland.
William Allan Young, Scotland.

1909.

Class I.

William Leslie Burgess, Scotland.
Henry Fleming Hamilton, England.
Robert Coltart Harkness, Scotland.
George Edwin King, England.
John Dykes Wilson, M.A., Scot.

Class II.

Eveline Rosetta Benjamin, Tas-
mania.
Hendrik Adriaan Vorster Loots,
Cape Colony.
Alexander Ninian Bruce, D.Sc.,
Scotland.
Alfred William Burton, Cape
Colony.
James Argyll Campbell, Australia.
Alfred Moore Elliott, Ireland.
Allan George Hamilton, England.
Thomas Eustace Harwood, B.A.,
England.
George Russell Ingiis, England.
Josiah Howard Lawry, England.
George Edward Gray Mackay,
Scotland.
Edward Loggie Middleton, Scot.
James Oag, M.A., Scotland.

John Renwick, Scotland.
Duncan Glenerochie Robertson,
Australia.

1910.

Class I.

Francis Gordon Bell, New Zealand.
John Falconer Brown, New Zea-
land.
Robert Sharp Lawson (M.A.),
Scotland.

Class II.

Peter Allan, Scotland.
Bobbie Marshall Allan, Australia.
James Couper Brash (M.A., B.Sc.),
Scotland.
Jemima Brown Dickie, Scotland.
Matthew Robertson Drennan, M.A.,
Scotland.
John Drummond, New Zealand.
Francis Richard Fraser (B.A.),
Scotland.
David Murray Lyon, England.
Claude Bartley Tudehope, New
Zealand.
Arthur Macgregor Warwick, Eng.

1911.

Class I.

Archibald John Bennee, England.
William Campbell, Scotland.
John Tertius Morrison, Scotland.

Class II.

Harry Bedingfield, Scotland.
James Roberts Boyd, Scotland.
Disney Hubert Dusch Cran, Scot.
Ronald Gray Gordon (B.Sc.), Scot.
Harry Foster Holmden, New
Zealand.
Peter M'Nab, New Zealand.
Thomas Paterson Noble, Scotland.
Thomas Clark Ritchie (B.Sc.),
Scotland.

1912.

Class I.

Samuel Burnside Boyd Campbell,
Ireland.
Walker Stewart Lindsay (B.A.),
Canada.

Edwin Douglas Pullon (B.Sc.),
England.

Alan William Stuart Sichel (B.A.),
South Africa.

Sydney Alfred Smith, New Zealand.

Arthur Theodore Todd, England.

Class II.

Arthur James Ballantine (B.A.),
South Africa.

Francis John Henderson Begg,
Scotland.

Gilbert Vere Bogle (B.A.), New
Zealand.

William Ewart Bullock (B.Sc.),
England.

George Foster Braithwaite Page,
England.

James Matthews Duncan Scott
(M.A.), Scotland.

1913.

Class I.

Ernest William Adcock, England.

James Norman Jackson Hartley,
England.

Thomas Douglas Inch, Scotland.

Thomas Pullar (M.A.), Scotland.

Class II.

Archibald Cowe, Scotland.

James William Edington, Scotland.

William Mackenzie, Scotland.

Wyndham Parker, England.

Edgar Percival, England.

Richard Wayland Smith, England.

FACULTY OF MUSIC.

THE DEGREE OF DOCTOR OF MUSIC (Mus.D.)

(by examination).

1913.

Matthew Shirlaw, Mus.B.

DEGREES CONFERRED, 1913—1914.

HONORARY GRADUATES.

THE HONORARY DEGREE OF DOCTOR OF DIVINITY (D.D.).

3rd July 1914.

Curtis, The Rev. Professor William
A., M.A., B.D., D.Litt., Univer-
sity of Aberdeen.

Macaulay, The Rev. Alexander B.,
M.A., Stirling.

Macquarrie, The Rev. Alexander J.,
M.A., Urquhart (Ferintosh).

Walker, The Rev. William Lowe,
Glasgow.

Walpole, The Right Rev. George
H. S., D.D., Bishop of the Edin-
burgh Diocese of the Scottish
Episcopal Church

THE HONORARY DEGREE OF DOCTOR OF LAWS (LL.D.).*3rd July 1914.*

Bramwell, Dr Byrom.

Dalrymple, The Right Hon. Sir Charles, Bart.

Dundas, W. J., Esq., C.S.

Ewing, J. L., Esq.

Guthrie, The Hon. Lord.

Mott, Dr F. Walker, F.R.S., Lond.

Smith, Professor G. Gregory, M.A., University of Belfast.

Smith, Professor J. A., M.A., University of Oxford.

FACULTY OF ARTS.**THE DEGREE OF DOCTOR OF LETTERS (D.Litt.).***3rd July 1914.*Jagger, John Hubert, M.A. *Thesis*—"The Use of Prose in Elizabethan Drama."Keith, Arthur Berriedale, M.A., D.C.L. *Thesis*—"The Aitareya and the Sankhayana Aranyakas of the Rigveda." (*In absentia*.)**THE DEGREE OF MASTER OF ARTS (M.A.) with HONOURS.**

(See Note, p. 631).

*27th March 1914.**Classics i.*, Beattie, John Menzies.

Cuthbert, William Johnston.

Dow, Thomas Miller.

Duncan, Flora Lilius.

Green, Stephen.

Laing, John Mackintosh.

Mann, Frederic.

Paterson, Elizabeth Cochrane.

Paton, Leonard Cecil.

Robertson, Robert.

Smeaton, Thomas Gibb.

Young, William.

Classics ii., Bone, Hugh.

Fenton, Ebenezer.

MacKenzie, Alister.

Makin, Alexandrina.

Walsh, William Nimmo.

Classics iii., Grassick, William Logan.

Hislop, Thomas Alexander.

Macnaughton, Duncan.

Rae, James.

Stuart, William Grant Spruell.

Wilson, James Leitch.

Mod. Lang. i., Bell, Eva Katherine Turnbull.

Brown, Mary Alexa.

MacIver, Agnes Russell.

Strong, Agnes Kirkland.

Mod. Lang. ii., Fraser, Jean Fotheringham.

Hunter, Rhoda Margaret Grizelda.

Johnston, Agnes Muriel.

Paris, Agnes Hatelie.

Paterson, Margaret Denholm.

Shearer, Jessie Graham Morton.

Simpson, Alexander Murray.

Smith, Mary Blair.

Wicks, Margaret Campbell Walker.

Mod. Lang. iii., Lawson, Janet MacKercher.

Steel, Christina Wright.

Lat. and Fr. ii., Kennedy, Grace.

Ross, Margaret Allan Sloan.

Watson, Peter.

3rd July 1914.

<i>Classics i.</i> , Langley, Raymond Leslie.	Moncrieff, Charles Kenneth Scott.
<i>Classics ii.</i> , Foulkes, George Boyd.	Paul, William Fordyce.
<i>Phil. i.</i> , Forrester, William Roxburgh.	Wright, Bertha Dorothy.
M'Kenzie, James.	<i>Eng. ii.</i> , Bignold, Gladys Kate.
<i>Phil. ii.</i> , Macalister, George Howden.	Binns, James Brangwyn.
Stewart, Frank Ogilvie.	Briggs, Mary Cathcart.
<i>Phil. iii.</i> , Roger, George Alexander.	Brooksbank, Bertram.
<i>Math. i.</i> , Barr, Elizabeth.	Clarke, Jessie Lillian.
M'Callum, Roderick.	Davidson, Donald.
Smith, George Pringle.	Graham, Georgina Guthrie.
Thomson, John William.	Grant, Christina Russell.
<i>Math ii.</i> , Angus, James.	Laird, Mary Frances.
Cassels, James.	Manson, Margaret.
Don, Agnes Frances Brownlee.	Nisbet, John.
Dunlop, Janette Gilchrist.	Simpson, Robert Kennedy Muir.
MacLennan, Wm. Donald Ross.	Stevenson, William Scott.
Marshall, Alexander.	Wright, George Gibson Neill.
Mill, George Scott.	<i>Hist. i.</i> , Fairgrieve, Thomas Dalgleish.
Moir, Annie Brown.	Steven, Thomas Morton.
Watson, John David Moncur.	Younie, John.
<i>Math. iii.</i> , Crichton, John.	<i>Hist. ii.</i> , Brydon, Robert Somerville.
Cur, Thomas.	Ettershank, Margaret Dawson.
Howie, James Collins.	<i>Hist. iii.</i> , Barrie, Mary Wilson (M.A. Glasgow).
Krishna, Morusupalli Venkata.	<i>Econ. Sc. i.</i> , Paterson, Norman Keith.
Scougal, Jack Grist.	Wilson, Edward John.
<i>Eng. i.</i> , Ashcroft, Dorothy.	<i>Econ. Sc. ii.</i> , Crawford, John.
Campbell, Alexander.	Joynt, Thomas Andrew.
Gibb, Arthur John.	

HONOURS OBTAINED AFTER GRADUATION.

27th March 1914.

<i>Classics ii.</i> , M'Alpine, Edward George.	<i>Mod. Lang. i.</i> , Noble, James.
--	--------------------------------------

3rd July 1914.

<i>Phil. iii.</i> , Mackay, Donald William.	<i>Econ. Sc. ii.</i> , M'Alpine, David Brown.
<i>Math. iii.</i> , Abernethy, Charles Lawrence.	Rao, Kona Sitarama.
<i>Hist. ii.</i> , Dalziel, Jeremiah.	
<i>Econ. Sc. i.</i> , Birnie, Arthur.	<i>Econ. Sc. iii.</i> , Rao, Nadimpalli Venkata Lakshmi Narasimha.
Myles, William Harris.	

ORDINARY DEGREE OF MASTER OF ARTS (M.A.).

18th October 1913.

- | | |
|--|---|
| Barrie, John Alexander. | M'Whirter, Robert. |
| Barron, Catherine Isabella. | Manson, Alexander. |
| Bera, Abinash Chandra. | Mohamad, Hasan, B.Sc. |
| Blades, Daniel Patterson. | (Engin.). |
| 5 Broatch, Margaret Kennedy. | 25 Munro, Thomas MacKay. |
| Chhibbar, Thakurdas. | Murchie, Grace Johnstone. |
| Connell, Mary Hunter. | Murray, Annie Joss. |
| Fraser, Thomas. | Neilson, Phyllis Jessie Barrington. |
| Gerrard, Madge. | Picker, Margaret Annie. |
| 10 Hope, Leslie Parkinson. | 30 Pillai, Krishna Narayana. |
| Hoy, Margaret Sim. | Pope, Justin John, B.Sc. (Agric.). |
| Hunter, Robert Gibson. | Rao, Rajah Manoor Venkata Seshachelapati. |
| Husain, Mazhar. | Riddell, Edith Mary Cornell. |
| Johanson, Johan Lauritz. | Scott, Alexander. |
| 15 Johnston, Jane Robertson. | 35 Stewart, Maggie. |
| Khan, Ghulam Mohammad, B.Sc. (Engin.). | Stoddart, Annie Brand. |
| Laing, Catherine Johnston. | Thomson, Mary Morrison. |
| Little, Ellen Reive. | Todrick, Herbert M'Pherson. |
| Mackay, Gordon. | Wakelin, James Glencorse. |
| 20 M'Kay, Janet Ritchie Campbell. | 40 Watt, Walter Stewart. |
| M'Lachlan, Margaret MacNie. | Wilson, David. |

27th March 1914.

- | | |
|--------------------------------------|--|
| Ahmad, Syed Mohommad. | Philip, James Gibson (<i>in absentia</i>). |
| Armstrong, Henry Leslie. | 15 Pillai, Parameswara Thanu. |
| Brown, Alfred James Ogilvie. | Rao, Kona Sitarama. |
| Cameron, Dougald. | Rao, Nadimpalli Venkata Lakshmi Narasimha. |
| 5 Chu, Siling Kee-Ngan. | Rasmy, Hassan. |
| Cochrane, Alexander Younger Peattie. | Schneider, George Henry. |
| Deva, Baddipally Nagappa Vijaya. | 20 Veel, George Reginald. |
| Dougal, Alexander. | Walker, May Laurie. |
| Finlay, John Adamson. | Wedderburn, Robert Hamilton MacLagan. |
| 10 Halliday, Joseph. | Weir, Alexander Thom. |
| Joseph, Taliat Varkey. | Wood, James Alexander. |
| Krishnaiya, Poluvan Nagaiyan. | |
| Petrie, Jessie. | |

3rd July 1914.

- Ainslie, Jessie Currie.
 Anderson, James.
 Angus, Walter Chalmers Smith.
 Bairstow, Guendolen Eleanor.
 5 Beveridge, Edith Mary.
 Bickett, Jessie Cameron.
 Brash, James.
 Briggs, William John Crossland.
 Calderhead, Isabel Mary.
 10 Campbell, Elizabeth Jane.
 Campbell, Lachlan Graham.
 Chaghtai, Mirza Saghir Begg.
 Coghill, Christina Miller.
 Cogie, Harriet Jessie.
 15 Common, William Bell.
 Cooper, James Murray.
 Coskry, Christina M'Pherson.
 Cowe, Evelyn Joan.
 Cresswell, James Henry.
 20 Davidson, Anna Pringle.
 Davidson, Dorothy Grace.
 Dinwiddie, Melville.
 Dobie, William Gardiner Mur-
 chie.
 Doughty, Gordon Gray.
 25 Dutt, Sachindra Nath.
 Edwards, Dorothy Agnes.
 Galbraith, Jeannette.
 Gardner, Elizabeth Strang Jack-
 son.
 Garry, Jane Somerville.
 30 Gray, Frederick Colin.
 Grayston, John William.
 Gunn, Robina.
 Hamilton, Martha Isabella.
 Harkness, John.
 35 Hay, Annie Plenderleith.
 Heughan, Cecil John.
 Hourston, Mary Murray Gar-
 rioch.
 Khan, Mohammad Jan (B.A.
 Allahabad).
 Kingan, Joseph.
 40 Kinnes, Margaret Reid.
 Lamont, Anna Christian.
 Lamont, Joseph.
 Logan, Margaret.
 Lornie, Franklin Ross Taylor.
 45 Loudon, Mary Muir.
 MacCulloch, Andrew Francis.
 Macdonald, Helen Louise.
 M'Intosh, Isabella.
 M'Intosh, James Edward.
 50 M'Kenzie, Jane.
 MacLeod, Roderick.
 Macmillan, Duncan.
 Malcolm, Charles Alexander.
 Mill, James Davidson.
 55 Millar, Janet Hunter M'Walter.
 Mowat, John.
 Munro, Ruby Adelaide Smith.
 Nichol, Harvey.
 Owler, Alexander Webster.
 60 Ritchie, John Macgregor (*in
 absentia*).
 Robertson, John Rae.
 Robertson, Thomas Eric.
 Ross, Robert.
 Scott, Annie Sinclair.
 65 Sethi, Daulat Ram.
 Sharma, Chiranjiv Lal.
 Shearer, Elizabeth.
 Skene, Alexander.
 Stevenson, Elizabeth Bruce.
 70 Strath, Helen Allan.
 Sutherland, Bessie.
 Swanson, Margaret Jack.
 Thorburn, Agnes Cumming.
 Thorburn, John.
 75 Wann, Mary.
 Warr, Charles Laing.
 Watson, Catherine Jackson.
 Young, Hilda Gordon.

10th July 1914.

- Cadman, Elsie Jane.
 Kerr, Peter, B.Sc.
 Lindsay, Maud.
 M'Dougall, James Currie.
 5 Stark, Hugh Goodwillie.
 Walls, Robert Reid.

FACULTY OF SCIENCE.**DEGREE OF DOCTOR OF SCIENCE (D.Sc.).****In Pure Science.***17th December 1913.*

Chaudhuri, Banawari Lal, B.A., B.Sc. *Thesis*—"Descriptions of New Species of Indian Marine and Fresh-Water Fishes." (*In absentia.*)

27th March 1914.

Burns, William, B.Sc. *Thesis*—"Studies in the Morphology, Anatomy, and Physiology of the Mango Inflorescence in Flowers." (*In absentia.*)

10th July 1914.

Brown, Thomas Graham, B.Sc., M.B. *Thesis*—"Studies in the Physiology of the Nervous System."

Campbell, James Argyll, M.D. *Thesis*—"The Effects of Pituitary Extract, Suprarenal Extract, and Chloroform upon the Blood Vessels." (*In absentia.*)

Young, Andrew, M.A., B.Sc. *Thesis*—"Tidal Phenomena at Inland Boreholes near Cradock, South Africa." (*In absentia.*)

In the Department of Engineering.*10th July 1914.*

Gulliver, Gilbert Henry, B.Sc. (Lond.). *Thesis*—"The Effects of Rapid Cooling upon Metals and Alloys."

THE DEGREE OF BACHELOR OF SCIENCE (B.Sc.).**In Pure Science.***18th October 1913.*

Sandilands, Richard.

27th March 1914.

Beard, Edgar.

Hume, John.

Low, James Wotherspoon.

Ray, Kumud Sankar.

3rd July 1914.

Abernethy, Charles Lawrence, M.A.

Angus, James, M.A.

¹ Barr, William, M.A.

Bera, Abinash Chandra, M.A.

Cassels, James, M.A.

Curr, Thomas, M.A.

Dunlop, Janette Gilchrist, M.A.

Howie, James Collins, M.A.

² McCall, Robert, M.A.

³ McCallum, Roderick, M.A.

MacCulloch, Andrew Francis, M.A.

MacLennan, William Donald Ross, M.A.

Marshall, Alexander, M.A.

Mill, George Scott, M.A.

⁴ Smith, George Pringle, M.A.

¹ Steven, Thomas Morton, M.A.

⁴ Thomson, John William, M.A.

Watson, John David Moncur, M.A.

¹ Passed with Special Distinction in Geology.

² Passed with Special Distinction in Physiology.

³ Passed with Special Distinction in Natural Philosophy.

⁴ Passed with Special Distinction in Mathematics and Natural Philosophy.

10th July 1914.

Alexander, Agnes Swan MacGarvie.	³ MacEwen, William George, M.A.
Clark, Agnes Williamina.	Rawson, Arthur.
Clark, Mary Anne Hall.	¹ Scott, Munro Briggs, M.A.
Cowan, John Macqueen, M.A.	Scott, Thomas, M.A.
Duke, Ethel Brydon, M.A.	Shiel, David Hastings, M.A.
Ferlie, Robert.	¹ Smith, James Lindsay Salmond, M.A.
¹ Geddes, Alastair Cosmo Burton.	Templeton, James.
Gerrard, John Smart, M.A.	Tennant, Alexander Smith, M.A.
Hope, James, M.A.	Thin, Russell Gibson.
² Lamont, Augusta.	Walls, Robert Reid, M.A.
Lindsay, Maud, M.A.	³ Young, Andrew White, M.A.
Lucas, Norman Carey, M.A.	

In the Department of Engineering.*18th October 1913.*

Duncan, Robert Dundas.	⁵ Robertson, William Kerr.
M'Lean, Robert.	White, John Walton.

17th December 1913.

Todrick, Herbert M'Pherson, M.A.

*27th March 1914.*⁴ Bhave, Damodar Krishna.*3rd July 1914.*

Leishman, Thomas Matthew.	Sharma, Chiranjiv Lal, M.A.
Retarekar, Mahadev Balwant, B.A. (Bombay).	

10th July 1914.

Bell, William Ivor.	⁴ Marsden, James Alfred.
⁴ ⁵ Cleghorn, Alfred Maxwell.	Parashar, Ram Nath.
⁴ ⁵ Davidson, James Eadie.	⁵ Richmond, Tom Guthrig.
Diacoff, Eftim George.	Sanderson, James Durie.
⁴ Douglas, George Purves.	Sandison, Charles Gilbert Duncan.
⁴ ⁵ Greenfield, Thomas Challen.	Smith, John Macmillan.
Hwang, Tiokyew.	Steele, Frank Weir.
⁴ Johnston, Thomas Arthur.	⁴ Watson, Fred Keith.
⁵ Johnstone, James Tait.	

¹ Passed with Special Distinction in Botany.² Passed with Special Distinction in Zoology.³ Passed with Special Distinction in Mathematics and Natural Philosophy.⁴ Passed with Special Distinction in the subject of Engineering.⁵ Passed with Special Distinction in the subject of Engineering Drawing.

In the Department of Public Health.*17th December 1913.*

Campbell, William, M.B., Ch.B.		Hesterlow, Alfred Maurice Victor, M.B., Ch.B.
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10th July 1914.

Gray, John William, M.A., M.B., Ch.B.		Williams, Norman Sydney, M.D. (Brussels).
--	--	--

Lambah, Vishwa Mitra, M.B., Ch.B.

In the Department of Agriculture.*27th March 1914.*

Bell, Edwin Archibald.		Rae, John Cairns.
Cassels, John William.		Sanitwongse, Phong.
Husain, Mazhar, M.A.		Sethi, Daulat Ram.
M'Connell, Primrose.		Taylor, James.
M'Lean, Angus.		Wallace, Samuel Thomas Dickson.
Murray, John Murdoch.		Watson, Alastair Fisher.

3rd July 1914.

Bryce, James.		Kapoor, Bansi Dhar.
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10th July 1914.

Churchill, Edward Archibald Hick- ling.		Elder, James Hislop.
Davidson, George.		M'Caskie, Roy White.

In the Department of Forestry.*27th March 1914.*

Pillai, Parameswara Thanu, M.A.		Whyte, Gustavus Aird.
Taylor, Robert Alexander War- drop, B.Sc. (Agric.) (<i>in absentia</i>).		

10th July 1914.

Fergusson, Donald Cameron, B.Sc. (Agric.).		Pillay, Padmanabha Raman, B.A. (Madras).
Fraser, William Archibald.		Robertson, Robert Drysdale.
Macpherson, Ian Donald.		Smith, Herbert Cecil.
Master, Jal Ardeshir.		

FACULTY OF DIVINITY.**DEGREE OF BACHELOR OF DIVINITY (B.D.).***18th October 1913.*

Renwick, Alexander Macdonald, M.A.

27th March 1914.

Crawford, William, M.A.		Henry, Donald Macintyre, M.A.
Ewen, John Spence, M.A., B.Sc. (Aberd.).		Warr, Alfred Ernest, M.A.

FACULTY OF LAW.

THE DEGREE OF BACHELOR OF LAWS (LL.B.).

18th October 1913.

¹ Hill, John Robertson, M.A.	M ^c Isaac, James Watson, M.A.
M ^c Glashan, Jeffrey Blackstock, M.A.	¹ Thomson, Robert, M.A.

27th March 1914.

Amiruddin, Mir, M.A.	¹ Mackintosh, Charles, B.A. (Oxon.).
¹ Brown, Charles Marshall, M.A.	Rissik, Frederick Altmann, M.A.
¹ Cooper, Thomas Mackay, M.A.	Stewart, John James Erskine Brown, B.A. (Oxon.).
Georgeson, Dan Horace, M.A.	
Lyell, David, B.A. (Oxon.).	
Mackenzie, Ian Alasdair, M.A.	

THE DEGREE OF BACHELOR OF LAW (B.L.).

18th October 1913.Gardner, James Scott. (*In absentia*.)27th March 1914.

¹ Letts, Robert Kenyon.	Power, Louis Edward Harold.
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FACULTY OF MEDICINE.

THE DEGREE OF DOCTOR OF MEDICINE (M.D.)

with the Titles of the Theses.

*** Awarded Gold Medals for their Theses.

** Highly commended for their Theses.

* Commended for their Theses.

17th December 1913.

- * Bolton, Norman Hay, England, M.B., Ch.B., 1911. "Bacillus Proteus Vulgaris; a Clinical and Bacteriological Investigation."
- ** Bourhill, Charles John George, South Africa, M.B., Ch.B., 1910. "The Smoking of Dagga (Indian Hemp) among the Native Races of South Africa, and the Resultant Evils."
- * Brunton, George Llewellyn, Scotland, M.B., Ch.B., 1903. "Observations on the Cerebro-Spinal Fluid in Mental Disease."
- * Burgess, George Cruickshank, Scotland, M.B., Ch.B. (with Second Class Honours), 1901. "Intracranial Tumour in Children."

¹ Passed with Distinction.

Court, Alexander Cosgrove, England, M.B., Ch.B., 1908. "The Prevention of Tuberculosis."

* Fisser, Gerhard Friedrich, South Africa, M.B., Ch.B., 1909. "A Study of 100 consecutive cases of Acute Lobar Pneumonia, with special reference to the use of Leucocytic Extract in the Treatment." (*In absentia.*)

Hewat, John, South Africa, M.B., Ch.B., 1911. "Etiology and Treatment of Converging Concomitant Strabismus, with special reference to a Reefing Operation introduced by Mr Maxwell of Dublin."

* Litt, John Percy, England, M.B., Ch.B., 1910. "Acute Anterior Poliomyelitis."

* Macdonald, William, Scotland, M.B., Ch.B., 1909. "An Experimental Investigation into the Occurrence and Significance of Sugar in Normal and Pathological Urines."

** Mackay, Norman Douglas (B.Sc.) Scotland, M.B., Ch.B., 1904. "Endemic Goitre, with special reference to its Occurrence in the Loch Tay District of Perthshire."

Manson, John Sinclair, Scotland, M.B., Ch.B., 1906. "The Paralyzes of Pregnancy and the Puerperium."

Milner, Ernest Arthur, England, M.B., C.M., 1889. "The Etiology of Amentia."

Moore, Arthur Eisdell, New Zealand, M.B., Ch.B., 1911. "Pneumonia in Children."

*Noble, Thomas Paterson, Scotland, M.B., Ch.B. (with Second Class Honours), 1911. "General Paralysis of the Insane: a Clinical Study."

*Philips, Abraham Zadok, Holland, M.B., Ch.B., 1910. "Chondrodystrophia Fœtalis in the Fœtus and the Infant."

Robinson, Joseph (B.Sc.), England, M.B., Ch.B., 1904. "Notes on Plague, its Epidemicity and Prophylaxis."

Thomson, Wyville Smyth, Scotland, M.B., Ch.B., 1909. "The Advantages of Intubation of the Larynx over Tracheotomy in Laryngeal Diphtheria, with twenty-five illustrative cases."

*Watson, Hugh Ballingall (M.A.), Scotland, M.B., Ch.B. (with Second Class Honours), 1908. "Coal Miners' Nystagmus."

10th July 1914.

Anderson, Thomas Macmillan, Scotland, M.B., Ch.B., 1912. "Influence of the various Age Epochs in the Causation of Mental Disease; with reference to 500 cases of acquired Insanity."

* Cairns, James William, Scotland, M.B., Ch.B., 1905. "The Frequency, Incidence, and Duration of various Complications met with in a series of 500 consecutive cases of Scarlet Fever."

Coghlan, Edward Francis, England, M.B., C.M., 1911. "Some Points in the Prognosis of Pulmonary Tuberculosis, with special reference to the Age of the Patients, and the duration of the disease."

Crocket, John, Scotland, M.B., Ch.B., 1908. "The Noguchi Luetin Reaction."

* Cruickshank, James Alexander (Capt. I.M.S.), Scotland, M.B., Ch.B., 1905. "Methods of Diagnosing Rabies, with special reference to the Complement Fixation Test." (*In absentia.*)

- ** Dewar, John Michael, Scotland, M.B., Ch.B., 1904. "The Mechanism of the Second Stage of Human Parturition."
- * Evans, Thomas Richard, Wales, M.B., Ch.B., 1910. "Miners' Nystagmus."
- * Fraser, Kenneth, Scotland, M.B., Ch.B., 1909. "The System of Medical Inspection of School Children in Cumberland, with special reference to the Diagnosis of Incipient Phthisis."
- *** Gunn, John Donald (B.A. Cantab.), Australia, M.B., Ch.B., 1910. "The Blood of *Astacus Fluviatilis*; a Contribution to the study of Crustacean Blood."
- * Heslop, William Robert Clayton, England, M.B., Ch.B., 1910. "Notes on fifty cases of Gastric Ulcer."
- Hume, John, Scotland, M.B., C.M., 1893. "The Acute Rheumatism of Childhood."
- Maunsell, Edward Charles Cecil (Capt. I.M.S.), Ireland, M.B., Ch.B., 1901. "Some Remarks on Entamoeba in Man, Diagnosis and Treatment." (*In absentia*.)
- Meyer, Reinhard Carl Johannes (B.A. Cape), South Africa, M.B., Ch.B., 1908. "The Pathogenesis of Glaucoma in Diabetes Mellitus."
- Park, Robert, Scotland, M.B., Ch.B., 1911. "Pituitary Extract, with notes on its action in Midwifery recorded at Queen Charlotte's Lying-in Hospital."
- * Porter, Allan Horatio, Scotland, M.B., Ch.B., 1910. "Gastric Ulcer—its Treatment with Gelatin."
- Ross, James Ness MacBean, Scotland, M.B., Ch.B., 1912. "New Growths of the Mediastinum, from a study of sixty cases."
- Silberbauer, Stanley Frederick, South Africa, M.B., Ch.B., 1911. "Hyoscine-Morphine Anæsthesia in Minor Surgery."
- Small, William Douglas Denton, Scotland, M.B., Ch.B., 1911. "Acute Lobar Pneumonia, with special reference to its Treatment."
- Smart, Morton Warrack, Scotland, M.B., Ch.B., 1902. "Injuries to Muscles and Joints and their Treatment by Graduated Contractions."
- *** Smith, Sydney Alfred, New Zealand, M.B., Ch.B., 1912 (with First Class Honours). "The Examination of Blood Stains in Medico-Legal Cases: an investigation into the efficiency of existing tests, and the spectroscopic differentiation of dyes and other pigments."
- Tampi, Kesavan Raman (B.A. Madras), India, M.B., Ch.B., 1906. "Ankylostomiasis in Travancore." (*In absentia*.)
- Tennant, John (M.A.), Scotland, M.B., C.M., 1893 (with Second Class Honours). "Puerperal Pelvic Thrombosis."
- Thomson, Alexander Butchart MacArthur, Scotland, M.B., Ch.B., 1902. "Ventilation, more particularly relating to Mechanical Ventilation in Public Buildings."
- Wajid, Muhammed Abdul (M.A., B.Sc.), India, M.B., Ch.B., 1912. "A Study of the Nervous and Mental Disease called Hysteria, with special reference to Symptomatology, Pathology, and Treatment."
- Walker, Arthur Samuel, England, M.B., Ch.B., 1906. "Tuberculosis in School Children, from a School Medical Officer's point of view."
- ** Watson, Allan, Scotland, M.B., Ch.B., 1909. "Some Observations on the Effects of certain Drugs on the Human Blood Pressure."
- Williams, William Hugh, Wales, M.B., C.M., 1894. "The Natural

History of Cancer and its Incidence in Anglesey, with special reference to the South-Eastern division of the County."

- *** Willox, Leonard Stephen, Scotland, M.B., Ch.B., 1911. "A Radioscopic Study of the shape, position, and motility of the stomach in Children, and of the time taken by different meals to pass through the stomach."

DEGREES OF BACHELOR OF MEDICINE AND BACHELOR OF SURGERY (M.B. and Ch.B.).

Small CAPITALS indicate First-Class Honours.

Italics, Second-Class Honours.

17th December 1913.

- | | |
|--|---|
| Allan, Ernest, Scotland. | Haddon, David Alexander Ross, Scotland. |
| Anderson, Gustave Alexander Melville, Ireland. | Henslow, Julia Veronica, England. |
| Arnott, Stanley, England. | Hinwood, Harry Clive, South Africa. |
| Bolotine, Vera Nialaevna, Russia. | Hunter, John Henry Graham, Scotland. |
| 5 Borthwick, George Arthur, England. | 30 Irvine, Robert Charles, Ireland. |
| Boyle, Henry, Ireland. | Jamal-ud-din, India. |
| Brown, William Thomson, Scotland. | Lethem, William Ashley, Scot. |
| Bruce, James Whitson Kemp, Scotland. | Llewellyn, Edgar, Wales. |
| Buchanan, John Vassie, Scot. | M'Caig, Joseph, Scotland. |
| 10 Bulman, John Roderick, Scot. | 35 M'Intosh, John Newton, Jamaica. |
| Campbell, Wilfrid Samuel Hamilton, Ireland. | Mackenzie, Bessie Russell, Scot. |
| Cannon, John Wilson, England. | Macmillan, Hugh Agnew, Scot. |
| Clark, Patrick Allan Bennet, Scotland. | Macmillan, Rosanna Elizabeth, Scotland. |
| Cook, John Burton, Scotland. | M'Neill, George, Ireland. |
| 15 Cromie, George (B.A.), New Zealand. | 40 M'Vicker, Daniel, Ireland. |
| Cunningham, John Baird, Scot. | Madill, Joseph Thomas Herbert (B.A.), Ireland. |
| Davidson, May Feodora Walshe, Ireland. | Mann, Alan Cowan, Scotland. |
| Duguid, William, Scotland. | Menzies, James Robertson, Scotland. |
| Dundee, William Boyle Hill, Ireland. | Mitra, Samarendra Lal (B.Sc.), India. |
| 20 Dunn, Bernard Venn, England. | 45 Mitra, Sarat Chandra, India. |
| Elliot, John Melville, Scotland. | Mitton, James Bertram, South Africa. |
| Eprile, Abraham, Scotland. | Moir, Henry Maitland, Scotland. |
| Gilmour, David, Scotland. | Moll, Sydney Reinhard, South Africa. |
| Gordon, Christopher, England. | Morrison, Albert John M'Clure Chesney, Ireland. |
| 25 Grant, George Reginald, Scotland. | |

- 50 Murch, Angus Hope, England.
Naidu, Bangalore Pasupulati
Balakrishna, India.
Newton, Robert Henry Herd-
man (B.A.), Scotland.
Panikkar, Kavalam Padma-
nabha, India.
Pattison, Andrew Ernest Seth
Pringle, Scotland.
- 55 Plüm, Margrethe, Denmark.
Price, Edmund George Cham-
bers, Scotland.
Reid, James Kenelm, England.
Rocha, Moyses João Da, West
Africa.
Scott, John Arthur Noël, Scot-
land.
- 60 Seagar, Edward Aitken, New
Zealand.
Sircar, Jyotiprokas (B.Sc.),
India.
Smith, Joseph Henry, Ireland.
Smith, Vivian Ramsay, Scot.
Stark, Robert Alexander, Scot.
65 Tait, Ralph Johnston, Scotland.
Tomb, John Sloan, Ireland.
Truter, Johannes Zacherias,
South Africa.
Walker, Mary Broadfoot, Scot.
Ward, Joseph Hugh, Ireland.
- 70 Watson, James Henry Digby,
England.
Watson, William Norman, Scot.
Wyllie, William Gifford, Scot.

10th July 1914.

- Aitchison, Robert Chalmers,
Scotland.
Alexander, Henry Scott Ander-
son, Scotland.
Alexander, Robert Harper, Scot.
Ashton, Basil Cedric, England.
- 5 Atkinson, Christopher, Ireland.
Baird, Mary Anne Harvey, Scot.
BANNERMAN, ROBERT GEORGE
(M.A.), Scotland.
Barclay, Rachel Mary (M.A.),
Scotland.
- BACHELOR, RALPH CAMPBELL
LINDSAY (M.A.), Scotland.
- 10 Bell, Hugh Windsor, England.
Bell, James Gordon, Scotland.
Bennett, John Wesley, Ireland.
Bethell, Stanley Ewart, England.
Biggam, James, Scotland.
- 15 Binks, Horace Burcham, Eng.
Bird, William, England.
Blair, Edward James, Scotland.
Brook, Alexander Barnett, Scot.
Caithness, Hugh Peace, Eng.
- 20 Cameron, Angus, Scotland.
Cameron, Robert Evan, Scot.
Collier, Howard Ebenezer, Eng.
Craig, Alexander Nelson, Ire-
land.
Darling, James Walker, Scot.
- 25 Davie, Thomas Macnaughton,
Scotland.
- Dickson, William Muir, Scot.
Dold, Cedric Lewis, South Africa.
Dukes, Cuthbert Esquire, Eng.
Edwards, George Kemp, Eng.
- 30 *Evans, John Davey* (B.Sc. Wales),
Wales.
Eykyn, Frederick Bentley, Eng.
Fairley, George Donaldson
(M.A.), Scotland.
Fenwick, Stanley, Scotland.
Findlater, Thomas Cadzow,
Scotland.
- 35 Fowler, Elspet, Scotland.
Friedrichs, Hermann Robert,
Scotland.
Fuller, Thomas Arthur, South
Africa.
Gibson, Henry James Craig
(M.A. Glas.), Scotland.
Gibson, Richard Edward, Eng.
- 40 Glen, Douglas James, Scotland.
Glynn, Arthur Samuel, England.
Haddow, Harold Percy Taylor,
England.
Hamilton, Andrew Rowan, Ire-
land.
Hay, Ninian Edward Miles
Home, Scotland.
- 45 Healy, James Joseph, England.
Heathcote, George Francis
Palmer, South Africa.
Henderson, Francis, Scotland.

- Herzfeld, Gertrude Marian
 Amalie, England.
 Hogarth, James Burnett, Eng.
 50 Husain, Khurshed, India.
 Inglis, Florence Elsie, England.
 Jarrette, Bertel Oliver, Trinidad.
 Joubert, Charles Pieter Marais,
 South Africa.
 Keet, Petrus Wilhelmus Jo-
 hannes, South Africa.
 55 Lambie, Charles George, Trini-
 dad.
 Laubscher, Samuel Johannes
 Albertus, South Africa.
 Levy, Louis, New Zealand.
 MACCALLUM, PETER (M.A.,
 M.Sc. New Zeal.), New Zeal.
 M'Fetridge, Thomas, Ireland.
 60 Mackay, Robert Mitchell, New
 Zealand.
 Mackenzie, Eric Francis Wal-
 lace, New Zealand.
 Mackenzie, Eric Loftus, South
 Africa.
 Mackenzie, John James Ross,
 Scotland.
 MacLaren, Jessie Alexandrina,
 Scotland.
 65 MacLeod, Ion Keith-Falconer,
 Scotland.
 M'Minn, Jean Martin (M.A.),
 Scotland.
 Macnaughton, Francis George,
 Scotland.
 Mansfield, Edward, Australia.
 Mason, Victor Harold, England.
 70 Max, David John, New Zealand.
 Mendelssohn, Benzion, South
 Africa.
 Millar, George, Scotland.
 Miller, Robert Webster, Scot.
 Molesworth, Eric Mackinnon,
 England.
 75 Mowat, George Thomson, Scot-
 land.
 Muir, Royden M'Intosh, New
 Zealand.
 Murdoch, William, Scotland.
 Neil, John Campbell, Scotland.
 Palmer, Hugh Salisbury, Eng.
 80 Philip, Colin Cameron, Scotland.
 Pirie, George Stephen, South
 Africa.
 Power, Reginald (B.E. Syd-
 ney), Australia.
 PRINGLE, JOHN MILLIE, Scot.
 Razakhan, Mirza, India.
 85 Rippiner, Henry Anthony, Eng.
 Ritchie, Robert Linton, Scot.
 Robins, Henry Charles,
 Jamaica.
 Sand, Charles, South Africa.
 Shaw, Archibald Campbell,
 Ireland.
 90 Shaw, Hugh Kirkland, Scot.
 Shires, Bertram, England.
 Simson, Henry John, Australia.
 Sinderson, Harry Chapman,
 England.
 Smart, Thomas William, Eng.
 95 *Smith, Alexander Hugh Dickson*,
 Wales.
 Smith, David Morrison, Scot-
 land. (*In absentia*.)
 Taylor, Alfred Squire, Ireland.
 Taylor, John Sutherland, Scot.
 Theron, Andreas Bernhardus,
 South Africa.
 100 Thomson, Andrew Rutherford
 (B.A. Manitoba), Canada.
 THOMSON, ROBERT ORR
 COLQUHOUN, Scotland.
 Thorp, Roland, England.
 Tillyard, Frederick Edward,
 England.
 Toit, Pierre du, South Africa.
 105 Walton, Janet Park, Scotland.
 Wan, Chik Hing, China.
 Welply, Henry Donald,
 Ireland.
 White, Horace Powell Wins-
 bury, New Zealand.
 Williamson, George Scott, Scot.
 110 *Wishart, David Garrick*, Scot.
 Wooler, Ernest William Nowell,
 England.
 Woudberg, Peter Clark Victor,
 South Africa.
 Wright, Bertram Ernest, New
 Zealand.
 Yates, George Dougal, Eng.
 115 Young, John Benson, England.

FACULTY OF MUSIC.

THE DEGREE OF BACHELOR OF MUSIC (Mus.B.).

27th March 1914.

Gall, Grant.		Robertson, Margaret.
Hume, George.		

DIPLOMAS CONFERRED.

FACULTY OF MEDICINE.

DIPLOMA IN TROPICAL MEDICINE AND HYGIENE
(D.T.M. and H.).*17th December 1913.*

Hesterlow, Alfred Maurice Victor, M.B., Ch.B., B.Sc.

10th July 1914.

Borthwick, George Arthur, M.B., Ch.B.
Fink, Laurence George, M.B., C.M.
Mackenzie, William, M.B., Ch.B.
Martin, Douglas, M.B., Ch.B.
Mitra, Satyendra Lal, M.B., Ch.B.
Rao, Stephen Ramchandra, F.R.C.S. Ed.

CLASS MERIT LISTS.

ACADEMIC YEAR 1913-1914.

FACULTY OF ARTS.

LATIN.

Honours Class.

First-Class Certificates of Merit.

- | | |
|--|---|
| 1 James Greig Shearer, East
Newport (<i>Medal</i>). | 10 J. C. MacIver, Edinburgh. |
| 2 { Robt. Robertson, Dunfermline. | 11 T. G. Smeaton, Dundee. |
| { William Young, Gilmerton. | 12 R. L. Langley, Kirkham,
Lancashire. |
| 4 George Brown, Edinburgh. | 13 Margaret A. S. Ross, Mark-
inch. |
| 5 R. B. Kerr, Edinburgh. | 14 John Penman, Lochgelly. |
| 6 R. T. Adamson, Ardrossan. | 15 W. J. Gibb, Balham, London. |
| 7 { Flora Duncan, Edinburgh. | |
| { Alexandrina Makin, Alva. | |
| { J. I. Miller, Hollybush. | |

Entitled to First-Class Certificates, but not Competing.

Ebenezer Fenton, Dundee. | J. F. Marshall, Cowie.
Frederick Mann, Arbroath.

Second-Class Certificates of Merit.

- | | |
|---|--|
| 19 { Annie Anderson, Inverkeillor. | 27 J. M. Laing, Edinburgh. |
| { Stephen Green, Aberlour. | 28 Grace Kennedy, Burray,
Orkney. |
| 21 W. J. Cuthbert, St Andrews. . | 29 I. M. Fraser, Edinburgh. |
| 22 John Whittaker, Edinburgh. | 30 R. O. C. Macdonald, Edin-
burgh. |
| 23 { Elizabeth C. Paterson, Edin-
burgh. | 31 Peter Watson, Crieff. |
| { I. E. de Watteville, Kingussie. | 32 George Morgan, Leith. |
| 25 Thomas Milne, Dunfermline. | |
| 26 E. G. M'Alpine, Edinburgh. | |

Prose Composition.

- | | |
|-----------------------|-------------------|
| 1 J. G. Shearer. | 7 J. F. Marshall. |
| 2 W. Young. | 8 R. T. Adamson. |
| 3 George Brown. | 9 { J. M. Laing. |
| 4 { Robert Robertson. | { John Penman. |
| { R. B. Kerr. | |
| { Frederick Mann. | |

Verse Composition.

- | | | |
|------------------|----------------|---------------|
| 1 J. G. Shearer. | 2 J. M. Laing. | 3 R. B. Kerr. |
|------------------|----------------|---------------|

English Essay.

- | | | | |
|---|------------------|---|-------------------|
| 1 | R. Robertson. | 4 | { E. G. M'Alpine. |
| 2 | { J. G. Shearer. | | { J. F. Marshall. |
| | { W. Young. | 6 | { W. T. Gibb. |
| | | | { George Brown. |

Latin Essay.

- | | | | |
|---|------------------|---|-----------------|
| 1 | R. B. Kerr. | 4 | { G. Brown. |
| 2 | { F. Mann. | | { I. M. Fraser. |
| | { R. T. Adamson. | | |

History of Literature.

- | | | | | | |
|---|----------------|---|----------|---|-----------------|
| 1 | J. G. Shearer. | 2 | F. Mann. | 3 | J. F. Marshall. |
|---|----------------|---|----------|---|-----------------|

Second Ordinary Course.*First-Class Certificate of Merit.*

Esther G. Leith, Wick.

Second-Class Certificate of Merit.

Cecilia C. Orr, Edinburgh.

First Ordinary Course.*First-Class Certificate of Merit.*

- | | | | |
|---|---------------------------------------|----|----------------------------------|
| 1 | { James Farquhar, New
Pitsligo. | 10 | F. C. Watt, Greenlaw. |
| | { David Milne, Edinburgh. } | 11 | Margaret M. Loudon,
Lasswade. |
| 3 | Allan J. Cleghorn, Alyth. | 12 | F. C. Hood, Trinity. |
| 4 | Dorothy Steven, Edinburgh. | 13 | Agnes H. Bannerman, Edin. |
| 5 | Maysie Deas, Edinburgh. | 14 | Ellen I. Wilkie, Edinburgh. |
| 6 | A. J. J. Latta, Edinburgh. | 15 | George Lowrie, Edinburgh. |
| 7 | A. W. Bannerman, Davidson's
Mains. | 16 | James Mill, Dundee. |
| 8 | Ch. I. Anderson, Edinburgh. | 17 | J. G. Allan, Edinburgh. |
| 9 | R. B. Bennett, Slateford. | 18 | Jessie H. Wakelen, Edinburgh. |

Second-Class Certificates of Merit.

- | | |
|------------------------------------|---------------------------------|
| H. P. Anderson, Edinburgh. | J. D. A. Macfie, Dunfermline. |
| Margaret M. Bannerman, Edin. | Catherine C. Mackay, Kingussie. |
| Olive A. G. Brown, Edinburgh. | Annie C. Mackellar, Denny. |
| Mary G. Cromarty, Shetland. | J. J. B. Martin, Edinburgh. |
| D. R. Cromb, Edinburgh. | Janet C. Mill, Edinburgh. |
| Jeanie Dawson, Alva. | George Mowat, Caithness. |
| Elizabeth S. Elliot, Newcastleton. | Anita W. Robertson, Edinburgh. |
| W. T. Eunson, Orkney. | Margaret Robertson, Montrose. |
| Jessie Harris, Edinburgh. | P. S. Smith, Edinburgh. |
| J. S. Ingles, Dumfries. | H. T. Spiers, Galashiels. |
| Margaret S. M'Alpine, Edinburgh. | Edith I. M. Thomson, Orkney. |
| Margaret M. M'Crea, Kirkcaldy. | Mabel M. Watt, Comrie. |

Prose Composition.

- 1 { R. B. Bennett.
James Farquhar.
3 David Milne.

- 4 { A. J. Cleghorn.
A. J. J. Latta.

Verse Composition.

- 1 James Farquhar. | 2 A. W. Bannerman.

History.

- 1 A. J. J. Latta. | 2 James Farquhar.

Literature.

- 1 David Milne. | 2 Dorothy Steven.

Essays.

Dorothy Steven.

W. R. HARDIE, M.A., LL.D., *Professor.*

Honours Half-Course (Summer.)*First-Class Certificates of Merit.*

- 1 Arthur S. Clark, Edinburgh. | 3 Walter J. Gibb, London.
2 John Whittaker, Edinburgh. |

Second-Class Certificate of Merit.

James Rankin, Edinburgh.

Prose Composition.

Walter J. Gibb.

JAMES MILL, M.A., *Lecturer.*

GREEK.**Honours Class.***First-Class Certificates and Prizes.*

- | | |
|--|---|
| 1 R. B. Kerr, Edinburgh
(<i>Medal, Scott and Dunbar
Prize</i>). | 7 J. M. Laing, Edinburgh. |
| 2 W. Young, Edinburgh. | 8 T. Smeaton, Dundee. |
| 3 Geo. Brown, Edinburgh. | 9 { Flora Duncan, Edinburgh.
J. F. Marshall, Stirling. |
| 4 S. Green, Aberlour. | 11 R. L. Langley, Kirkham. |
| 5 F. Mann, Arbroath. | 12 Annie Anderson, Montrose. |
| 6 R. Robertson, Dunfermline. | 13 Eliz. C. Paterson, Edinburgh. |

Second-Class Certificates.

14 J. I. Miller, Ayr.	23 R. S. Paterson, Edinburgh.
15 Alexandrina Makin, Alva.	24 W. L. Grassick, Ayr.
16 J. Whittaker, Edinburgh.	25 W. N. Walsh, Edinburgh.
17 W. J. Gibb, London.	26 J. Rae, Ayr.
18 W. J. Cuthbert, Edinburgh.	27 E. G. M'Alpine, Edinburgh.
19 J. Rankin, Edinburgh.	28 Lavinia Sinclair, Edinburgh.
20 D. Brown, Dalkeith.	29 J. L. Wilson, Dunfermline.
21 E. Fenton, Dundee.	30 C. B. M'Alpine, Edinburgh.
22 H. Bone, Ayr.	

Special Prizes.

Prose Competition.—J. M. Laing. | *Unseen Translation.*—W. Young.

Ordinary Class.*First-Class Certificates and Prizes.*

1 J. Farquhar, Edinburgh (<i>Medal and Butcher Memorial Prize</i>).	7 J. G. Allan, Edinburgh.
2 D. Milne, Edinburgh.	8 Miss Blanche L. Watt, Edin.
3 Miss Dorothy Steven, Edin.	9 J. N. M'Iver, Elgin.
4 A. J. Cleghorn, Alyth.	10 Miss Margaret M'Crea, Kirkcaldy.
5 C. J. Anderson, Edinburgh.	11 F. C. Watt, Greenlaw.
6 A. J. J. Latta, Edinburgh.	

Second-Class Certificates.

12 J. Macfie, Dunfermline.	17 C. C. Watt, Greenlaw.
13 N. D. Kennedy, Edinburgh.	18 G. Mowat, Caithness.
14 D. Soutar, Thurso.	19 I. Sandeman, Edinburgh.
15 R. Rawson, Dumfries.	20 R. Minto, Edinburgh.
16 D. Singleton, Clitheroe.	

Special Prizes.

Composition.—Dorothy Steven. | *Greek History.*—D. Milne.
Greek Literature { Dorothy Steven. | *Unseen Translation.*—J. Farquhar.
 { D. Milne.

A. W. MAIR, M.A., Litt.D., *Professor.*

Honours Half-Course (Summer).*First-Class Certificates.*

1 J. Rankin, Edinburgh (<i>Medal</i>).	2 I. M. Fraser, Edinburgh.
--	----------------------------

Second-Class Certificates.

3 { Lavinia C. Sinclair, Hamilton. John Penman, Edinburgh.

H. J. W. TILLYARD, M.A., *Lecturer.*

RHETORIC AND ENGLISH LITERATURE.**Honours Class—Full Course.***Prize and First-Class Certificate.*Arthur Mowat, Lybster (*Medallist*).*First-Class Certificate.**Second Attendances* (taking all examinations, and equal to first place, but not competing).

Dorothy Ashcroft, Alloa.

(Taking two examinations of first-class quality, but not competing).

Robert K. M. Simpson, Aberfeldy.

Third Attendances (taking two attendances, and first in both, but not competing).

Bertha D. Wright, Newcastle-on-Tyne.

Second-Class Certificates.

2	{ F. N. Branford, London.	9	Muriel Chalmers, Edinburgh.
	{ Jane W. Main, Leith.		{ Vera P. Duffes, Edinburgh.
	{ Mary M. Martin, Stornoway.	10	{ Francis D. Hislop, Edinburgh.
5	Hector M. Paterson, Mull.		{ Hugh Somerville, Edinburgh.
6	{ Margaret Allan, Edinburgh.	13	Janet M. Gracie, Dirleton.
	{ Elizabeth M. Howie, Edin.	14	Jean R. M. Macaulay, Edinburgh.
8	Charlotte E. W. Thompson, Edinburgh.	15	Andrew M. Cant.

Second Attendances (in alphabetical order).

Gladys K. Bignold, Pembrokeshire.	Georgina G. Graham, Singapore.
Jas. B. Binn, Leeds.	Christina R. Grant, Edinburgh.
Alexander Campbell, Perth.	Mary F. Laird, Scotland.
Jessie L. Clarke, Saltoun.	Margaret Manson, Stromness.
Donald Davidson, Invergowrie.	John Nisbet, Reston.
M. Evelyn Duff, Edinburgh.	Will. F. Paul, Uphall.
Arthur J. Gibb, Arbroath.	James W. Thomson, Cockenzie.

Third Attendance.

George G. Wright, Haddington.

Scottish Text Society's Prize and First-Class Certificate.

Eva M. Stephen, Corstorphine.

Prox. Acc.—Tomima Slater, Orkney.**Ordinary Class—Second Course.***Second-Class Certificate.*

Tomima Slater, Orkney.

Ordinary Class—First Course.*Class Prizes and First-Class Certificates.*

- | | |
|---|---|
| 1 Cecil John Heughan, Skipton. | 6 Agnes W. Wilson, Tillicoultry. |
| 2 { James Collie, Brechin.
Robina A. Henderson,
Dumfries. } | 7 Robert Cromarty, Edinburgh. |
| 4 Barbara G. Crockett, Edin-
burgh. | 8 { Alan M. Davidson, Invergowrie.
Thos. B. Landells, Edinburgh. |
| 5 Ida Coutts, Kirkcaldy. | 10 John W. Oliver, Edinburgh. |
| | 11 May A. Wilson, Duns. |
| | 12 Hugh Clarkson, Armadale. |

Second-Class Certificates.

- | | |
|---|---|
| 13 Robert Smith, Edinburgh. | 26 Elizabeth J. Boag, Dunning. |
| 14 William Redpath, Hawick. | 27 Kate Alice Duncan, Coupar-
Angus. |
| 15 Mary A. B. Aitken, Edinburgh. | 28 C. A. C. Muir, Canada. |
| 16 William Harrower, Alva. | 29 { Margaret Moyes, Dornoch.
Donald Macpherson, Edin. |
| 17 { James R. Lawrie, Harthill.
Thomas M. Linkie, Edin. | 31 John D. Westwood, Alloa. |
| 19 John C. MacIver, Islay. | 32 { Jessie C. Ainslie, London.
May L. W. Scott, Glasgow. |
| 20 { Robert T. Adamson, Ardrossan.
Isabella E. Campbell, Penicuik. | 34 Elizabeth E. Duthie, Thurso. |
| 23 Mary F. Clyde, Winchburgh. | 35 { Arthur S. Clark, Edinburgh.
Harry Wedeclefsky, Sheffield. |
| 24 { James E. B. Craig, Dunbar.
Thomas H. Burleigh, Ednam. | |
| 24 { John Harkness, Dumfriesshire. | |

Essay Prizes and First-Class Certificates.

- | | |
|---------------------------------------|--|
| 1 Cecil John Heughan,
Skipton. | 3 James Collie, Brechin. |
| 2 Alex. M. Farquharson,
Edinburgh. | 4 Isabella S. Campbell, Penicuik. |
| | 5 { Mary A. B. Aitken, Edin.
Hugh Clarkson, Armadale. |

Second-Class Certificates.

- | | |
|---|--|
| 7 John Harkness, Dumfriesshire. | 13 R. H. M. Wedderburn, Scot. |
| 8 Mary F. Clyde, Winchburgh. | 14 James P. Davie, Uphall. |
| 9 May A. Wilson, Duns. | { Freda M. Buchanan, Edin.
Lachlan G. Campbell, North
Berwick. |
| 10 { Robert Cromarty, Shetland.
Robina A. Henderson, Dum-
fries.
Thomas M. Linkie, Edin. | 15 { Margaret A. Robins, Winch-
burgh. |

John Westwood—equal, 8th place—omitted by accident.

Prizes for Verse and First-Class Certificate.

Ethel Mackay, Edinburgh.

Early English Text Society's Prizes.

- 1 Cecil John Heughan, Skipton.
- 2 Robina A. Henderson, Dumfries.

GEORGE SAINTSBURY, M.A., *Professor.*

ENGLISH LANGUAGE.**Honours Course.***First-Class Certificates.*

1	Arthur Mowat, Lybster (<i>Medal and S.T.S. Prize</i>).	2	Janet M. Gracie, Dirleton (<i>E.E.T.S. Prize</i>).
			Jane W. Main, Leith.
			Mary Martin, Stornoway.
			Charlotte E. W. Thompson, Edinburgh.

Second-Class Certificates.

Margaret Allan, Longniddry.	Elizabeth Gorrie, Edinburgh.
Fred. W. Branford, England.	Jane B. Macaulay, Helensburgh.
Muriel J. Chalmers, Edinburgh.	Hugh Somerville, Edinburgh.

SECOND ATTENDANCE.*First-Class Certificates.*

Dorothy Ashcroft, Alwar.	Margaret Manson, Stromness.
Jessie L. Clarke, Saltoun.	John Nisbet, Berwickshire.
Donald Davidson, Jamaica.	Charles Scott Moncrieff, Stirlingshire.
Arthur J. Gibb, Arbroath.	Robert R. M. Simpson, Aberfeldy.
Christina R. Grant, Edinburgh.	

Second-Class Certificates.

Gladys Bignold, Pembroke.	Georgina S. Graham, Singapore.
James B. Binns, Leeds.	Mary F. Laird, Scotland.
Bertram Brooksbank, Yorks.	Will. F. Paul, Uphall.
Vera P. Duffes, Edinburgh.	W. Scott Stevenson, Stirlingshire.

ENGLISH LITERATURE.**Honours Half-Course.***First-Class Certificates.*

1	Dorothy Ashcroft, Alwar (<i>Medal</i>).	2	Hector Paterson, Mull.
			Muriel J. Chalmers, Edinburgh.
			Elizabeth Gorrie, Edinburgh.
			Mary Martin, Stornoway.
			Jane B. Macaulay, Helensburgh.
			Charlotte E. W. Thompson, Edinburgh.

Second-Class Certificates.

Margaret Allan, Longniddry.
 Mary C. Briggs, Edinburgh.
 Vera P. Duffes, Edinburgh.
 Janet Gracie, Dirleton.

Georgina S. Graham, Singapore.
 Peter Kennedy, Edinburgh.
 Jane W. Main, Leith.

A. BLYTH WEBSTER, M.A., *Lecturer.*

FRENCH.**Honours Class.***First-Class Certificates and Prizes.*

- | | | |
|---|--------------------------------|-----------------|
| 1 | May A. Brown, Edinburgh | |
| | (<i>Medal</i>). | |
| 2 | William Henderson, | } <i>Prizes</i> |
| | Ayr. | |
| 3 | James Noble, Leith. | |
| | { Eva K. T. Bell, Edinburgh. | |
| 4 | { Agnes R. MacIver, Edinburgh. | |
| | { Alexander Murray Simpson, | |
| | Edinburgh. | |

- | | |
|----|----------------------------------|
| 7 | Peter Watson, Crieff. |
| | { Jean F. Fraser, Selkirk. |
| | { Margaret A. S. Ross, Dalkeith. |
| 8 | { Elizabeth B. Stevenson, Edin. |
| | { Margaret C. W. Wicks, |
| | Headingley. |
| 12 | Hester Y. Macneill, Colonsay. |

Second-Class Certificates (alphabetically).

Helen R. Burns, Kirkcaldy.
 Joseph Halliday, Penpont, Dumfries.
 Rhoda M. G. Hunter, Lerwick.
 Agnes M. Johnston, Falkirk.
 Grace Kennedy, Orkney.
 Harry M'Carthy Main, Leith.
 Roderick O. C. Macdonald, Edin.
 Catherine F. M'Kenzie, Inver-
 gordon.

Janet H. M. Millar, Tranent.
 Phyllis J. B. Neilson, Northampton-
 shire.
 Agnes H. Paris, West Calder.
 Margaret D. Paterson, Biggar.
 Jessie G. M. Shearer, Dunfermline.
 Mary B. Smith, Chester.
 Agnes K. Strong, Glencorse.

Intermediate Class.*First-Class Certificates.*

- | | | |
|---|--|-----------------|
| 1 | Harry E. Wedeclefsky, Edin-
burgh (<i>Medal</i>). | |
| | { Margaret H. Roy, Perth. | } <i>Prizes</i> |
| | { Agnes J. Fraser, Mussel-
burgh. | |
| 2 | { Janet H. M. Millar, | |
| | Tranent. | |

- | | |
|---|---------------------------------------|
| 5 | Jessie C. Ainslie, Broughty
Ferry. |
| 6 | { Hilda G. Young, Edinburgh. |
| | { Mary G. Gilchrist, Muirkirk. |

Second-Class Certificates (alphabetically).

Elizabeth J. Boag, Dunning.
 John E. G. Burgoyne, Ayr.
 Evangeline M. P. Jack, Stirling.

Jessie C. Peters, Haddington.
 Eva M. Stephen, Corstorphine.

First-Class Certificates.

- | | |
|---|---------------------------------------|
| 12 Mary Alex. Brown, Edin. | 14 Margaret D. Paterson, West Linton. |
| 13 Margaret C. W. Wicks, Edin.
(<i>Special Prize for Oral Work</i>). | |

Second-Class Certificates.

James Noble, Leith.	Christina W. Steel, Scotland.
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OTTO SCHLAPP, Ph.D., *Lecturer.*

Intermediate Class.*First-Class Certificates.*

- | | |
|---|----------------------------------|
| 1 John Rae Robertson, Ardersier
(<i>Medal and Better Endowment Prize</i>). | 2 Agnes H. Bannerman, Edinburgh. |
|---|----------------------------------|

Second-Class Certificates.

- | |
|---|
| 3 { Rodney M. A. Murray, Edinburgh.
Mary Wann, Comrie. |
|---|

Ordinary Class.*First-Class Certificates.*

- | | |
|---|---|
| 1 { Aileen A. Calderwood, Edinburgh.
Mysie E. I. Robertson, Edinburgh. } | 8 { Annie C. Lusk, Haddington.
Robert A. Ramsay, Haddington. |
| 3 { Janet T. Lowe, Duns.
Margaret F. Merson, Edin.
Margaret Logan, Juniper Green. | |
| | 5 { Mary A. M. Scott, Ruthwell.
Jessica M. Paterson, Biggar. |

Second-Class Certificates (in alphabetical order).

Amy Baxter, Perth.	Julia M. M. Keith, Thurso.
Mary M. Cossar, Haddington.	Elizabeth B. M'Kenzie, Wishaw.
Amelia M. Davidson, Biggar.	Lizzie M. Miller, Forbes.
William F. Dickson, Dumfries.	Margaret R. Parker, Edinburgh.
Ross Taylor Haddow, Falkirk.	Annie R. Ross, Kirkcaldy.
Isabella J. Hutchison, Dumfries.	Mary G. Wright, Linlithgow.

H. F. EGDELING, M.A., *Junior Lecturer.*

OTTO SCHLAPP, Ph.D., *Lecturer.*

CELTIC LANGUAGES AND LITERATURE.**Advanced Celtic Class.***Prizes and First-Class Certificates.**Senior Division.*

- 1 Dougald Cameron, M.A., Salen, Loch Sunart (*Medal*).

*First-Class Certificates.**Junior Division.*

{ Roderick Chisholm, Glenelg. } *Medals*
 { Donald Macleod, M.A., Canada. }

Second-Class Certificate.

Murdoch D. Macdonald, Stornoway.

Celtic Class.*Prizes and First-Class Certificates.**Senior Division.*

{ Malcolm Graham, M.A., Skye. } *Medals*
 { Donald Macleod, M.A., Canada. }

Second-Class Certificate.

Murdo Macdonald, Lewis.

*First-Class Certificates.**Junior Division.*

1	{	Roderick Chisholm, Glenelg. Christy Gillies, Staffin, Skye.	}	<i>Medals</i>		3	Murdoch D. Macdonald, Stornoway.
						4	Isabella Graham, Uig, Skye.

Prizes for Gaelic Composition.

{ Christy Gillies, Staffin, Skye.
 { Donald Macleod, M.A., Canada.

DON. MACKINNON, M.A., *Professor.***ELEMENTARY HEBREW.***Prize.*

Franklin Lornie, Edinburgh.

A. S. TRITTON, M.A., *Assistant to Professor of Hebrew.*

ARABIC.

Senior Class.

- | | | | | |
|---|-----------------------|--|---|---------------------------|
| 1 | A. A. Mohanna, Egypt. | | 2 | A. C. Kennedy, Edinburgh. |
|---|-----------------------|--|---|---------------------------|

Junior Class.

- | | | | | |
|---|---------------------------------|--|---|--------------------|
| 1 | Hamilton A. R. Gibb, Edinburgh. | | 2 | Norman D. Kennedy. |
|---|---------------------------------|--|---|--------------------|

EDWARD ROBERTSON, M.A., B.D., D.Litt.

LOGIC AND METAPHYSICS.

Honours Class.

First-Class Certificates.

- | | | | | |
|---|--|---|-------------------------------|----------|
| 1 | William Murray, Aberdeen
(<i>Bruce of Grangehill and
Falkland's Prize and Medal</i>). | 5 | F. O. Stewart, Lass-
wade. | } Prizes |
| 2 | W. R. Forrester, Glasgow.
G. H. Macalister, Edinburgh.
James M'Kenzie, Thornhill. | 6 | G. A. Roger, Edin. | |

Ordinary Class.

First-Class Certificates.

- | | | | | |
|---|---|----|-------------------------------------|----------|
| 1 | L. J. M'Iver, Islay. | 11 | H. L. Dennler, Wor-
mit. | } Prizes |
| 2 | { Angus Macrae,
Locheearnhead.
W. J. Anderson,
Inverkeilor. } Medals | 12 | J. N. M'Iver, Elgin. | |
| 4 | G. K. H. Cochrane, Edinburgh. | 13 | R. S. Paterson, Edinburgh. | |
| 5 | T. E. Robertson, Edinburgh. | 14 | John Penman, Lochgelly. | |
| 6 | { J. C. Grierson, Selkirk.
L. J. Saunders, Stirling.
T. B. Landells, Edinburgh.
F. C. Hood, Leith.
J. P. Watson, Edinburgh. | 15 | Amelia R. Melville, Edin-
burgh. | |
| | | 16 | T. L. Barker, Edinburgh. | |
| | | 17 | Mary E. Kerr, Burghead. | |
| | | 18 | Henry Mackay, Tain. | |

Second-Class Certificates (in alphabetical order).

- | | |
|-------------------------------|---------------------------------|
| Christina Donaldson, Leith. | W. G. Mitchell, Joppa. |
| Agnes J. Fraser, Musselburgh. | John Mowat, Lybster. |
| Jessie C. Haig, Edinburgh. | J. B. Patrick, Hawick. |
| Marion S. Halliday, Ayr. | Lavinia C. Sinclair, Edinburgh. |
| J. A. Hart, Edinburgh. | Frank Singleton, Clitheroe. |
| J. F. M'Laren, Edinburgh. | H. E. Wedeclefsky, Sheffield. |

A. S. PRINGLE PATTISON, M.A., LL.D., *Professor.*

ADVANCED LOGIC.**(Spring Term.)***Certificates of Merit.*

W. A. M. Austin.
 W. Y. Drummond.
 William Hamilton.
 E. R. G. Jones.
 R. A. MacLean.

J. R. Martin.
 William Murray.
 N. A. Turner Smith.
 R. F. Whiteley.
 Elspeth S. Wilson.

ANCIENT PHILOSOPHY.**Honours Half-Course (Autumn Term).***Certificates of Merit.*

George Brown.
 W. R. Forrester.
 G. H. Macalister.
 C. M. Mackay.

James M'Kenzie.
 William Murray.
 F. O. Stewart.

Introductory (Summer Term).*Certificates of Merit—SECTION 1.*

J. G. Allan.
 C. I. Anderson.
 James Farquhar.
 J. S. Hall.
 A. J. J. Latta.
 J. D. A. Macfie.
 J. F. M'Laren.

H. C. Macpherson.
 David Milne.
 George Mowat.
 Ian Sandeman.
 Dorothy Steven.
 W. F. G. Wedderspoon.

SECTION 2.

W. A. M. Austin.
 David Brown.
 J. H. S. Burleigh.
 H. L. Dennler.
 W. Y. Drummond.
 William Hamilton.
 E. R. G. Jones.

J. B. Leask.
 L. J. M'Iver.
 R. A. MacLean.
 J. R. Martin.
 N. A. Turner Smith.
 R. F. Whiteley.
 Elspeth S. Wilson.

R. P. HARDIE, M.A., *Lecturer.*

MORAL PHILOSOPHY.**Honours Class.***First-Class Certificates.*

- | | | | |
|---|--|---|------------------------------|
| 1 | W. R. Forrester, Edinburgh | 4 | G. H. Macalister, Edinburgh. |
| | (<i>Medal</i>). | | |
| 2 | { James M'Kenzie, Thornhill.
F. O. Stewart, Lasswade. } | | <i>Prizes</i> |

C. M. Mackay, Alness, unplaced owing to absence from one examination.

Second-Class Certificate.

G. A. Roger, Edinburgh.

Ordinary Class.*First-Class Certificate.*

- | | | | | | | | |
|---|---|--|---------------|----|--|--|---------------|
| 1 | { J. F. Marshall, Cowie.
N. A. Turner-Smith, Bath. } | | <i>Medals</i> | | { Edith M. Beveridge,
Melrose (<i>Elizabeth
Hamilton Prize</i>). } | | |
| 3 | John Mowat, Lybster. | | | 6 | { J. H. S. Burleigh, Ednam,
Kelso.
Angus Macrae, Lochearnhead.
R. F. Whiteley, Edinburgh. } | | <i>Prizes</i> |
| 4 | { W. B. Common, Lockerbie.
J. A. Shannon, Edinburgh. } | | | 10 | { W. J. Anderson, Inverkeilor.
Mary M. Loudon, Lasswade. } | | |
| | | | | 12 | Elspeth S. Wilson, Pontefract. | | |

Unplaced owing to absence from one examination—C. J. Heughan, Skipton (*Special Prize*).

Second-Class Certificates (in alphabetical order).

- | | |
|--------------------------------|--------------------------------|
| Mary A. B. Aitken, Edinburgh. | Isabella Guthrie, Leith. |
| W. A. Austin, Walsall. | E. R. G. Jones, Edinburgh. |
| David Brown, Dalkeith. | J. N. M'Iver, Elgin. |
| Freda M. Buchanan, Edinburgh. | D. Macmillan, Glen Urquhart. |
| L. G. Campbell, North Berwick. | G. Morgan, Leith. |
| Hugh Clarkson, Armadale. | Tomima Slater, Orphir, Orkney. |
| Ida Coutts, Edinburgh. | H. G. Stark, Carron, Falkirk. |
| G. Cuthbert, Edinburgh. | J. J. S. Thomson, Hawick. |
| F. C. Gray, Kirkcaldy. | Agnes C. Thorburn, Dalbeattie. |
| J. C. Grierson, Selkirk. | R. P. Whiteford, Roxburgh. |

JAMES SETH, M.A., *Professor*.

Second Course.*Certificates of Merit.*

A. Birnie.		R. A. MacLean.		J. R. Martin.
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Honours Half-Course (Summer Term).*Certificate of Merit.*

W. A. Austin.	R. A. MacLean.
G. Brown.	J. R. Martin.
W. Y. Drummond.	T. G. Smeaton.
S. Green.	N. A. Turner-Smith.
J. C. Grierson.	R. F. Whiteley.
W. Hamilton.	Elspeth S. Wilson.
E. R. G. Jones.	

H. BARKER, M.A., *Lecturer.***PSYCHOLOGY.****Honours Class.***First-Class Certificates.*

Helena D. Cruden, M.A., St Andrews.		G. A. Roger, Edinburgh.
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Ordinary Class.*First-Class Certificates.*

1 W. W. M'Clelland, B.Sc., Newton-Stewart (<i>Medal</i>).	8 Annie C. Lusk Bolton, Had- dington.
2 Margaret K. B. Sommerville, Edinburgh.	9 { Margaret B. G. Glass, Edin. Janet H. M. Millar, Tranent.
3 Robert Smith, Edinburgh.	11 { W. A. M. Austin, Walsall. Margaret J. Swanson, Wick.
4 J. C. Grierson, Selkirk.	13 { Helen A. E. Gunn, Caithness. Esther G. Leith, Wick.
5 { Guendolen E. Bairstow, Galashiels. Wm. Hamilton, Biggar. Edward MacRae, Edin. } <i>Prizes</i>	

Second-Class Certificates (in alphabetical order).

Agnes Adamson, Dunfermline.	Mary Macgregor, Edinburgh.
Janet I. Carruthers, Edinburgh.	Alastair Shannon, Edinburgh.
W. Y. Drummond, West Calder.	Eva M. Stephen, Corstorphine.
W. L. Liston, Newhaven.	

W. G. SMITH, M.A., Ph.D., *Lecturer.*

POLITICAL ECONOMY.

Honours Class.

Medal and Prize.

Arthur Birnie, M.A., Edinburgh.

First-Class Certificates.

- | | | | |
|-----|----------------------------------|-----|-----------------------------|
| 2 { | T. M. Steven, Kilmarnock. | 4 { | John R. Taylor, Leith. |
| | John Younie, Rothes, Morayshire. | | D. B. M'Alpine, M.A., Edin. |

Second-Class Certificates.

- | | |
|-----|----------------------|
| 6 { | S. K. N. Chu, China. |
| | K. Sitarama Rao. |

Ordinary Class.

Prizes and First-Class Certificates.

- | | | | |
|---|---|-----|--------------------------------------|
| 1 | Chas. B. M'Alpine, Edinburgh
(<i>Medal and Merchant Company's Prize of £10, 10s.</i>). | 5 { | Andrew Corner, Thrumster, Caithness. |
| | | | Margaret Swanson, Wick. |
| George Watson's Prize and Daniel Stewart's Prize. | | 7 | A. C. Sengupta, India. |
| 2 { | Gwendolen E. Bairstow, Galashiels. | | |
| | Wm. H. Marwick, Edinburgh. | | |
| | John W. Oliver, Edinburgh. | | |

First-Class Certificates.

- | | | | |
|------|--|------|---|
| 8 { | Wm. B. Common, Lockerbie. | 15 { | Gordon G. Doughty, Edin. |
| | Peter M'Donald, Edinburgh. | | Donald Stalker, Dundee
(2nd attendance). |
| 10 { | Thomas A. Lumsden, Edinburgh. | | Jas. B. Lockhart, Ecclefechan. |
| | Annie O'Malley, Edinburgh. | 17 { | Margaret Logan, Juniper Green. |
| | Fred C. Gray, Kirkcaldy. | | Robt. P. Whiteford, Roxburgh. |
| 12 { | Duncan Macmillan, Drumna-drochit, Inverness-shire. | 20 { | Arthur S. Clark, Edinburgh. |
| | Jessie Stevenson, Haddington. | | Herbert J. Thom, Edinburgh. |

Second-Class Certificates (in alphabetical order).

- | | |
|---------------------------------|-------------------------------|
| James Anderson, Kirriemuir. | Christina Donaldson, Leith. |
| R. G. Bannerman, Dumfries. | William L. Douglas, Polmont. |
| Edith M. Beveridge, Melrose. | Kate A. Duncan, Coupar-Angus. |
| William G. Calder, Edinburgh. | Elizabeth E. Duthie, Thurso. |
| Robert M. Connell, Dunfermline. | James Y. Erskine, Edinburgh. |

John Ferguson, Aberfoyle.
 Elizabeth J. Forrest, Auchterarder.
 Bertram T. Fraser, Leith.
 Ian M. Fraser, Edinburgh.
 Margaret B. G. Glass, North
 Berwick.
 Robina Gunn, Kirkwall.
 Charles M. Hepburn, Alloa.
 Jessie M. Hislop, Ayr.
 Katharine C. Irving, Lasswade.
 Lena J. Kaye, Edinburgh.
 T. M. Linkie, Edinburgh.

Michael G. M'Diarmid, Cam-
 usericht, Rannoch Station.
 Lewis J. M'Iver, Edinburgh.
 Ferguson M'Neill, Eskbank.
 William G. Mitchell, Joppa.
 John Mowat, Lybster.
 Mysie, E. I. Robertson, Edinburgh.
 Anna I. M. Ross, Invergordon.
 Annie S. Scott, Westray, Orkney.
 Philip S. Smith, Edinburgh.
 Edith S. Southall, Edinburgh.
 Agnes C. Thorburn, Dalbeattie.

Essays.

Andrew Corner, Thrumster, Caithness (*Prize*).

Honourable Mention.

2	{	Arthur S. Clark, Edinburgh. T. M. Linkie, Edinburgh. Wm. H. Marwick, Edinburgh. John W. Oliver, Edinburgh. Mysie E. I. Robertson, Edin.	}	7	{	Gordon G. Doughty, Edin- burgh. Thos. A. Lumsden, Edinburgh.
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Economic Science as Applied to Agriculture.

First-Class Certificate.

Andrew Corner, Thrumster, Caithness.

Second-Class Certificates (in alphabetical order).

James H. Elder, Athelstaneford Mains, Drem. Primrose M'Connell, Southminster, Essex. Angus M'Lean, Spott, East Lothian.	John C. Rae, Edinburgh. S. T. D. Wallace, Thornhill, Dumfries. Alastair F. Watson, St Boswells.
---	--

J. SHIELD NICHOLSON, M.A., D.Sc., *Professor*.

Elementary Course (Summer).

First-Class Certificates.

1	Geoffrey S. A. Nicholson.		3	{	Susanne Kunad. Mukundrai Dolatrai Thakore.
2	George Lyall.				

Second-Class Certificate.

5 Ilse Süssmilch.

JAMES B. GUILD, M.A., *Lecturer*.

ECONOMIC HISTORY.**Honours Class.***First-Class Certificates.*

- | | |
|---|--|
| 1 William H. Myles, M.A.,
Dunbar (<i>Medal and Prize</i>). | 5 Edward J. Wilson, Abbey St
Bathans. |
| 2 { Arthur Birnie, M.A., Edin.
Norman K. Paterson, Edin.
John R. Taylor, Leith. } <i>Prizes</i> | |

Second-Class Certificates.

- | | |
|-----------------------------------|--|
| 6 David B. M'Alpine, Edinburgh. | 9 N. V. L. N. Rao, Koffahet,
Guntur, India. |
| 7 John Crawford, Leith. | |
| 8 K. S. Rao, Marsulipatan, India. | |

Ordinary Class.*First-Class Certificates.*

- | | |
|--|--------------------------------|
| 1 Laurance J. Saunders, Stirling
(<i>Medal and Prize</i>). | 4 Gordon G. Doughty, Edin. |
| 2 { Robert B. Kerr, Edin. (<i>Prize</i>).
William J. Carrie, Edinburgh. | 5 George H. Ross, Fearn, Ross. |
| | 6 James M. Cooper, Edinburgh. |

Second-Class Certificates.

- | | |
|--|--|
| 7 { Joseph Kingan, Edinburgh.
Ian E. de Watteville, King-
ussie. | 15 Andrew J. Messer, Lemington-
on-Tyne. |
| 9 S. B. Chaghtai, Constantinople. | 16 Ian Simon Chesser, Edin. |
| 10 { Percy H. Smith, Edinburgh.
James Tait, Edinburgh. | 17 James Forbes, Dunfermline. |
| 12 Marion S. Halliday, Ayr. | 18 Jeannette Galbraith, Edin. |
| 13 Kenneth A. MacRae, Edin. | 19 { Joseph Lamont, Edinburgh.
Alexander Kennedy (on two
terms' work). |
| 14 James A. Scott, Edinburgh. | |

J. F. REES, M.A., *Lecturer.***STATISTICS.***First-Class Certificates.*

- | | |
|--|----------------------------|
| A. Birnie, Edinburgh (<i>Medal</i>). | W. H. Marwick, Nigeria. |
| J. R. Taylor, Scotland. | W. M. Mitchell, Edinburgh. |
| D. MacPherson, Edinburgh. | |

Second-Class Certificates.

- | | |
|-------------------------|---------------------------|
| A. C. Sengupta, Madras. | W. A. Thomson, Edinburgh. |
|-------------------------|---------------------------|

G. A. CARSE, M.A., D.Sc., *Lecturer.*

THEORY AND HISTORY OF EDUCATION.**Advanced Course.***First-Class Certificates.*

Helena D. Cruden, M.A.

| Ronald R. Whitcombe, M.A.

Ordinary Course.*First-Class Certificates.*

- | | | |
|---|----------------------------|----------|
| 1 | Wm. A. F. Hepburn, M.A. | } Medals |
| 2 | { Margaret D. Howie, M.A. | |
| | { Mary L. Williamson, M.A. | } Medals |
| 4 | James R. Lawrie. | |
| | { Jenny P. Cunningham. | } Prizes |
| | { M.A. | |
| 5 | { Lilius M. Mackie, M.A. | } Prizes |
| | { Margaret B. Martin, M.A. | |

- | | |
|----|------------------------------|
| 8 | Annie S. Taylor, M.A. |
| 9 | William S. Pender. |
| 10 | { Evelyn M. Buchanan, M.A. |
| | { Alexander W. Owler. |
| 12 | { Andrew T. Cluness, M.A. |
| | { Margaret R. Richmond, M.A. |

Second-Class Certificates (arranged alphabetically).

Isa S. Anderson.
 Lizzie C. S. Brydone.
 Isabel M. Calderhead.
 Mary Campbell.
 Annie R. Carmichael.
 Elspeth E. Clark, M.A.
 Harriet J. Cogie.
 James H. Cresswell.
 Ethel M. Downie.
 Jane C. G. C. Dunnett, M.A.
 James T. Goodsir.
 Martha I. Hamilton.
 Annie P. Hay.
 Dorothy M. Herald, B.A.
 Janet Hutchison, M.A.
 Margaret S. Hutt, M.A.
 Jessie M. Jack, M.A.
 Peter Kerr, B.Sc.
 Anna C. Lamont.
 Philippe C. G. Le Harivel, M.A.

Margaret G. Leitch.
 Jean K. Leslie, M.A.
 Elizabeth R. M'Adam, M.A.
 Nora M'Ervel, M.A.
 Janet K. B. Macpherson, M.A.
 Andrew Mathison.
 Annie J. Murray, M.A.
 Douglas Rae.
 Thomas E. Robertson.
 James K. Rutherford.
 George W. Simpson.
 Earnest H. Smale.
 James T. Steele, M.A.
 Elizabeth B. Stevenson.
 Mary M. Thomson, M.A.
 Allan L. Walker, M.A.
 Agnes M. Wilson.
 Mary A. Wilson.
 William Wilson.
 Grace S. L. Young.

Present-Day Problems in Education and Contemporary Educational Systems.*First-Class Certificates.*

- | | | | |
|---|-------------------------------|---|-----------------------------------|
| 1 | { William A. F. Hepburn, M.A. | 6 | { Philippe C. G. Le Harivel, M.A. |
| | { Mary L. Williamson, M.A. | | { Hester Y. Macneill, M.A. |
| 3 | Helena D. Cruden, M.A. | | { Mary M. Thomson, M.A. |
| | { Jane A. Meikle, M.A. | 9 | { Jean K. Leslie, M.A. |
| 4 | { Martha Schopf. | | { Janet K. B. Macpherson, M.A. |
| | | | { Ronald R. Whitcombe, M.A. |

Second-Class Certificates (arranged alphabetically).

Christina S. Baillie, M.A.
 Henrietta R. Brook, M.A.
 Agnes Buyers, M.A.
 Andrew T. Cluness, M.A.
 Jeanie N. Couston, M.A.
 John Gall, M.A.
 Elsie Grant, M.A.
 Janet Hutchison, M.A.
 Margaret S. Hutt, M.A.
 Jessie M. Jack, M.A.

Alexander Linton, M.A.
 Elizabeth R. M'Adam, M.A.
 Margaret H. K. M'Kenzie, M.A.
 Alexandrina Makin, M.A.
 J. Margaret Miller, M.A.
 Annie J. Murray, M.A.
 Mary J. B. Rodger, M.A.
 Alexander S. Tennant, M.A.
 Allan L. Walker, M.A.
 Mary Watson, M.A.

JAMES DREVER, M.A., B.Sc., *Lecturer.*
 ALEXANDER DARROCH, M.A., *Professor.*

MATHEMATICS.**Advanced Honours Course.***First-Class Certificates.*

1	{ Roderick McCallum, Edinburgh. W. D. R. MacLennan, Edinburgh. W. A. Sinclair, Orkney.	} Medals & Prizes	6	David Jeffrey, Leith.
			7	G. M. Martin, East Calder.
			8	{ Cath. B. Mills, Edinburgh. David L. M. Tod, Huddersfield.
4	J. B. Guthrie, Leven.		10	Thomas A. Brown, Edinburgh.
5	Elizabeth Barr, Currie.		11	James S. Parker, Edinburgh.

Not Attending for the First Time (in alphabetical order).

T. Curr, Dunbar.	George P. Smith, Linlithgow.
George S. Mill, Anstruther.	J. W. Thomson, Penicuik.

Second-Class Certificates (in alphabetical order).

James Angus, Edinburgh.	M. Jaczewski, Toms.
James Cassels, Ayr.	A. Marshall, Edinburgh.
John Crichton, Oakbank.	G. H. Matheson, Edinburgh.
Agnes F. B. Don, Cape Colony.	Annie B. Moir, Perth.
Janette G. Dunlop, Edinburgh.	J. G. Scougal, Huddersfield.

JOHN UROUHART, M.A., B.A., *Lecturer.*
 E. T. WHITTAKER, Sc.D., F.R.S., *Professor.*

Intermediate Honours Course.*First-Class Certificates and Prizes.*

1	{ James B. Lockhart, Cambuslang John Mackenzie, Sutherlandshire.	} Medals	3	Thomas A. Lumsden, Edinburgh.
			4	Margaret P. White, Edinburgh.

First-Class Certificates.

5	H. P. Datta, India.	7	J. Ogilvie, Leith.
6	Thomas Wylie, Edinburgh.	8	Isabella Drennan, Edinburgh.

Not Attending for the First Time.

R. T. Dunbar, Broughty Ferry.

Second-Class Certificates (in alphabetical order).

William Barr, Haddington.
James N. Dandie, Edinburgh.
W. G. Dobson, Bathgate.
Catherine F. Grant, M.A., Blairgowrie.
R. G. Leishman, Hawick.
Susan H. Newlands, Ayrshire.

Anne S. Paterson, Roxburghshire.
Thos. D. F. Scott, Edinburgh.
G. W. Simpson, Edinburgh.
R. F. Simpson, England.
W. C. Taylor, Leith.
James H. Waddell, Edinburgh.
C. D. Walinck, Methil.

DAVID GIBB, M.A., B.Sc., *Lecturer.*

JOHN URQUHART, M.A., B.A., *Lecturer.*

E. T. WHITTAKER, Sc.D., F.R.S., *Professor.*

Second Ordinary Course.

Prizes and First-Class Certificates.

1 John J. Low, Perth (*Medal*).

2 { William Cooper, Dolphinton.
Fred Dixon, Darlington.
Adam D. Macdonald, Dundee.
John S. Robertson, Edinburgh.

First-Class Certificates.

6 William Redpath Hawick.
7 Thomas M'Walter, Millar, Tranent.
8 { James H. B. Bell, Auchtermuchty.
George Calder, Edinburgh.

10 H. B. Barclay, Lanark.
11 Robert B. Bennett, Slateford.
12 { William M. Ames, Dundee.
Hans L. Dennler, Wormit.
14 Philip S. Smith, Sunderland.

Second-Class Certificates (in alphabetical order).

William E. Barnie, Edinburgh.
Allan J. Cleghorn, Alyth.
James P. Davie, Uphall Stn.
James Erskine, Coupar-Angus.
Bertram T. Fraser, Leith.
Edith E. Fraser, Edinburgh.
William F. Gillies, Haddington.
Helen A. Lumsdaine, Edinburgh.
A. G. MacGregor, Halifax, N.S.
Isabel G. M'Leod, Edinburgh.

John Morrison, Galashiels.
Alexander Mowat, Thurso.
David R. Nairn, Kirkcaldy.
Alexander Ross, North Berwick.
James Rutherford, Eaglesfield.
Agnes M. Scott, Jersey.
David G. A. Stewart, Edinburgh.
George H. Swan, Kirkcaldy.
Merle Vieyra, Travancore, India.
William M. Yeatts, Edinburgh.

Recommended for the Newton Bursary.—John J. Low.

DAVID GIBB, M.A., B.Sc., *Lecturer.*

E. T. WHITTAKER, Sc.D., F.R.S., *Professor.*

First Ordinary Course.*Prizes and First-Class Certificates.*

- | | | |
|---------------------------------------|----------------|-----------------------------|
| 1 Samuel Allen, Leith. | } <i>Medal</i> | 4 Margaret M. Loudon, |
| 2 Rachel G. Somerville,
Bonnyrigg. | | Lasswade. |
| 3 Harold T. Spiers, Galashiels. | | 5 William Eunson, Kirkwall. |

First-Class Certificates.

- | | |
|--|--|
| 6 David Liddell, Leith. | 14 William H. Ritchie, Leith. |
| 7 Frank Esplin, Brechin. | 15 { Andrew A. Mitchell, Edinburgh. |
| 8 David K. M'Kenzie, Thornhill,
Dumfriesshire. | |
| 9 Adolphine E. M. M. Dallas,
Portobello. | 18 Margaret Robertson, Montrose. |
| 10 { Andrew J. M. Butter, Perth.
Alfred E. Farrell, Dunfermline.
Christian S. Landale, Mussel-
burgh. | 19 Mary E. Crawford, Preston-
pans. |
| | 20 Isabella M. Clark, Leith. |
| | 21 { John Henderson, Ayr.
Mary H. Robertson, Perth. |
| 13 Alexander Gibb, Edinburgh. | 23 Cath. C. Mackay, Kingussie. |

Second-Class Certificates (in alphabetical order).

- | | |
|--|-------------------------------------|
| James Allan, Hutton, Berwick-on-
Tweed. | Norman M. Irvine, Forfar. |
| Wilhelmina Allison, Airdrie. | John R. K. Jack, West Calder. |
| James H. Clarke, Crossgates, Fife. | Andrew H. Johnston, Edinburgh. |
| Mary W. Clarkson, Douglas. | John R. Kent, Orkney. |
| Isabella Cormack, Thurso. | Lawrence Kerr, Dunbar. |
| James Dalgleish, Leith. | James D. Mill, Edinburgh. |
| George Davidson, Caithness. | James I. K. Moyes, Dornoch. |
| Dorothy G. Downie, Edinburgh. | James C. N. Redden, Edinburgh. |
| Mary M. Fulton, Forres. | Nora Maud Robinson, Edinburgh. |
| John Gillies, Edinburgh. | Elizabeth C. Rutherford, Edin. |
| William T. Hall, Edinburgh. | Annie B. Tannahill, Castle-Douglas. |
| Elizabeth Hendry, Edinburgh. | Mary M. Weir, Edinburgh. |
| Mary M. G. Hourston, Kirkwall. | William Whitehead, Falkirk. |
| John S. Inglis, Dumfries. | Lily A. Wood, Edinburgh. |

JOHN URQUHART, M.A., B.A., *Lecturer.*
E. T. WHITTAKER, Sc.D., F.R.S., *Professor.*

Second Technical Course.*First-Class Certificates.*

- | | |
|---|---|
| 1 Bhupallam S. Chetti, Ananta-
pur, Madras Presidency
(<i>Medal</i>). | 2 Dimo Georgieff Diacoff, Malo
Tirnov, Bulgaria. |
| | 3 Alexander M. Telford, Leith. |

Second-Class Certificates (in alphabetical order).

- | | |
|---------------------------------|---------------------------------|
| M. A. Asrani, Shikarpur, India. | James M. Laing, Nairn. |
| Henry M. Dunbar, Dundee. | William M. M'Gregor, Edinburgh. |

First Technical Course.*First-Class Certificates.*

- | | |
|---|------------------------------|
| 1 James T. Flett, Kirkwall,
Orkney (<i>Medal</i>). | 2 William A. Barclay, Perth. |
|---|------------------------------|

Second-Class Certificates (in alphabetical order).

- | | |
|-------------------------------------|--------------------------------|
| Jacob Alexander, Edinburgh. | William J. Gracie, Dirleton. |
| Leslie B. C. Cunningham, Edinburgh. | V. R. Krishna, India. |
| | J. Scott Stevenson, Edinburgh. |

ELLICE M. HORSBURGH, M.A., B.Sc.,
Assoc.M.Inst.C.E., *Lecturer*.

Function Theory.*First-Class Certificates.*

- | | |
|--|----------------------------------|
| 1 G. P. Smith, Linlithgow
(<i>Medal</i>). | 4 A. Marshall, Edinburgh. |
| 2 Elizabeth Barr, Currie. | 5 Janette G. Dunlop, Edinburgh. |
| 3 Thos. A. Brown, Edinburgh. | 6 W. D. R. MacLennan, Edinburgh. |

Not Attending for the First Time (in alphabetical order).

- | | |
|--------------------------|-----------------------------|
| J. W. Thomson, Penicuik. | J. D. M. Watson, Edinburgh. |
|--------------------------|-----------------------------|

Second-Class Certificates (in alphabetical order).

- | | |
|---------------------------------|-------------------------------|
| Charles L. Abernethy, New York. | James C. Howie, Edinburgh. |
| James Angus, Edinburgh. | Roderick M'Callum, Edinburgh. |
| James Cassels, Ayr. | G. M. Martin, East Calder. |
| John Crichton, Oakbank. | George S. Mill, Anstruther. |
| Agnes F. B. Don, Cape Colony. | J. G. Scougal, Huddersfield. |

DAVID GIBB, M.A., B.Sc., *Lecturer*.

E. T. WHITTAKER, Sc.D., F.R.S., *Professor*.

NATURAL PHILOSOPHY.**Electrostatics—Final Honours Class.***First-Class Certificates.*

- | | |
|--|---------------------------------|
| 1 George P. Smith, Linlithgow
(<i>Medal and Prize</i>). | 5 Agnes F. B. Don, Cape Colony. |
| 2 { James C. Howie, Edinburgh. | |
| { Roderick M'Callum, Edin. | |
| { Alex. Marshall, Edinburgh. | |

Second-Class Certificates.

- | | |
|---------------------------------|------------------------------------|
| 6 Janette G. Dunlop, Edinburgh. | 10 John D. M. Watson, Edinburgh. |
| 7 Elizabeth Barr, Lanarkshire. | |
| 8 John W. Thomson, Penicuik. | 11 Wm. D. R. MacLennan, Edinburgh. |
| 9 George S. Mill, Anstruther. | |

Thermodynamics—Intermediate Honours Class.*First-Class Certificates.*

- | | | |
|---|-----|---------------------------------------|
| 1 Margaret P. White, Edinburgh
(<i>Medal and Prize</i>). | 3 { | R. T. Dunbar, Broughty
Ferry. |
| 2 James Ogilvie, Leith (<i>Prize</i>). | | Anne S. Paterson, Rox-
burghshire. |

Second-Class Certificates.

- | | | |
|---|-----|-----------------------------|
| 5 Thos. A. Brown, Edinburgh. | 9 { | Thos. Wylie, Glasgow. |
| 6 Wm. C. Taylor, Leith. | | James B. Guthrie, Leven. |
| 7 David Jeffrey, Edinburgh. | 11 | Norman C. Lucas, Australia. |
| 8 Wm. A. Sinclair, St Margaret's
Hope. | 12 | Catherine B. Mills, Leith. |
| | 13 | R. G. Leishman, Hawick. |

C. G. BARKLA, D.Sc., F.R.S., *Professor*.**Ordinary Class.****SENIOR DIVISION.***First-Class Certificates.*

- | | | |
|---|-----------------|--|
| 1 Jas. H. B. Bell, Auchtermuchty
(<i>Medal and Prize</i>). | } <i>Prizes</i> | 4 Samuel Allen, Glasgow. |
| 2 { Wm. M. Ames, Dun-
dee.
John J. Low, Perth. | | 5 { Adam D. Macdonald, Perth.
T. M. Millar, Tranent. |
| | | 7 Wm. E. Barnie, Edinburgh.
8 Wm. Cooper, Dolphinton. |

Second-Class Certificates.

(Names arranged alphabetically in groups.)

- | | | |
|--------------------------------|----------------------|---------------------------------|
| (a) H. B. Barclay, Lanark. | } (c) V. R. Krishna. | G. B. Gourlay, Sydney. |
| W. H. Cameron, Edinburgh. | | John H. Howie, Edinburgh. |
| Jas. P. Davie, Uphall. | | Walter F. Hutton, Dunfermline. |
| Fred. Dixon, Darlington. | | Angus W. Mackay, Burntisland. |
| Jas. Erskine, Coupar-Angus. | | George G. Swan, Kirkcaldy. |
| John Morrison, Galashiels. | | W. M. Yeatts, Edinburgh. |
| S. K. Pannikar, Travancore. | | |
| Wm. H. Ritchie, Leith. | | Jas. D. W. Mills, Leith. |
| (b) Robert G. Broadwood, Edin. | | J. A. H. O'Sullivan, Shillong. |
| T. A. Burns, Dundee. | | David G. A. Stewart, Edinburgh. |
| Wm. F. Gillies, Haddington. | | Wm. D. Watson, Selkirk. |

JUNIOR DIVISION.*First-Class Certificates.*

- | | | |
|--|-----|-------------------------------------|
| 1 Thos. Mackenzie, Inverness
(<i>Medal, Prize, and Newton
Bursary</i>). | 5 { | Jacob Alexander, Edinburgh. |
| 2 { John S. Robertson, Edin-
burgh.
Alex. Ross, Edinburgh.
Jas. T. Flett, Finstown. | | J. H. B. Wedderspoon, Ran-
goon. |
| | 7 { | Robert B. Bennet, Mid-
Lothian. |
| | | Jas. A. McMillan, Kirkcaldy. |

- | | | | |
|----|---|----|--|
| 9 | { Wm. Jas. Gracie, Dirleton.
John Scott Stevenson, Scotland. | 12 | { Agnes M. Scott, Jersey.
Rachel G. Somerville, Edin. |
| 11 | Isabel M. Calderhead, Roskeen. | 14 | George G. Mathewson, Dunfermline. |
| | | 15 | Mary H. Tolmie, Scone. |

Second-Class Certificates.

(Names arranged alphabetically in groups.)

- | | | | |
|-----|---|-----|---|
| (a) | Marta A. Dallas, Glenluce.
W. A. Forsyth, Montrose.
I. Lippert, Russia.
Isabel G. M'Leod, Edinburgh.
Elizabeth M'Vittie, Annan.
John Mitchell, Edinburgh.
Hilda Southern, London. | (c) | L. B. C. Cunningham, Edinburgh.
Alex. T. Dougal, Linlithgow.
John Gillies, Edinburgh.
Harold Jamieson, Nairn.
Hana D. Knott, Edinburgh.
George Lyall, Edinburgh.
A. M. M'Cracken, Newcastle-on-Tyne.
Evangeline B. A. Macdonald, Invergordon.
J. E. M'Intosh, Newcastle-on-Tyne.
Robt. M'Intosh, Dundee.
Alex. Main, Airdrie.
Joseph C. Mellor, Meltham.
Hamish G. G. Pender, Argyllshire.
John Reid, North Berwick.
Elizabeth C. Rutherford, Edinburgh.
David L. Scotland, Orai, India.
Andrew S. Sinclair, Paisley. |
| (b) | Douglas E. Calver, Kilmarnock.
M. S. Choudary, Madras.
Jas. H. Clarke, Crossgates.
Raphael Farhi, Beirut.
Wm. A. Fowler, Logie-Easter.
Alex. Gibb, Edinburgh.
John P. Hope, Musselburgh.
Mary P. Kerr, Edinburgh.
H. Lipetz, Edinburgh.
Alex. M. Marr, Edinburgh.
David R. Nairn, Kirkcaldy.
Jessie Rae, India.
David S. Spence, Stromness.
Thos. Talbot, Edinburgh.
Alex. B. Williamson, Paisley.
Robt. B. Wilson, Jamaica. | | |

G. A. CARSE, M.A., D.Sc.

C. G. BARKLA, D.Sc., F.R.S., *Professor.***PRACTICAL PHYSICS.**

SENIOR CLASS.

(Names arranged alphabetically.)

First-Class Certificates.

- | | |
|-------------------------------|--------------------------|
| C. L. Abernethy, New York. | G. P. Smith, Linlithgow. |
| Mary H. W. Jaczewska, Tomsk. | J. W. Thomson, Penicuik. |
| Janette G. Dunlop, Edinburgh. | |

Second-Class Certificates.

- | | | |
|-----------------------|--|------------------------|
| J. Cassels, Scotland. | | D. Jeffrey, Edinburgh. |
|-----------------------|--|------------------------|

Donald Fraser Bursary.—Janette G. Dunlop.*Neil Arnott Scholarship.*

- | | | |
|--------------|--|----------------|
| G. P. Smith. | | J. W. Thomson. |
|--------------|--|----------------|

JUNIOR CLASS.

Second-Class Certificate.—M. A. Asrani, India.

J. R. MILNE, D.Sc.

G. A. CARSE, M.A., D.Sc.

C. G. BARKLA, D.Sc., F.R.S., *Professor*.

APPLIED MATHEMATICS.

Intermediate Dynamics.

First-Class Certificates.

1	{ T. A. Brown, Edinburgh. John Mackenzie, Halla- dale, Sutherlandshire.	} <i>Medals</i>	5	James Ogilvie, Leith.
3	N. C. Lucas, Melbourne.		6	D. L. M. Tod, Logiealmond.
4	J. B. Guthrie, Leven.		7	{ Catherine B. Mills, Leith. Margaret P. White, Edinburgh * G. M. Martin, East Calder.

* Second attendance.

Second-Class Certificates.

9	D. Jeffrey, Leith.	12	I. E. de Watteville, Kingussie.
10	Thos. Wylie, Glasgow.	13	W. A. Sinclair, Orkney.
11	Anne Paterson Hobkirk, Rox- burghshire.	14	Isabella Drennan, Methil.
		15	Haripada Datta, Calcutta.

Advanced Dynamics.

First-Class Certificates.

1	G. P. Smith, Linlithgow (<i>Medallist</i>).	} <i>Medal- list</i>	4	W. D. R. MacLennan, Edin- burgh.
2	{ Alex. Marshall, Edin- burgh. J. W. Thomson, Peni- cuik.		5	{ Janette G. Dunlop, Edinburgh. Roderick M'Callum, Edin- burgh.

Second-Class Certificates.

7	Elizabeth Barr, Currie.	11	G. H. Matheson, Edinburgh.
8	Annie B. Moir, Perth.	12	{ James Angus, Edinburgh. J. C. Howie, Edinburgh.
9	{ Agnes F. B. Don, Cape Colony. G. S. Mill, Anstruther.		* John Crichton, Aberdeen. * J. D. M. Watson, Edinburgh.

* Second attendance.

Quaternions.

Second-Class Certificates.

1	G. P. Smith, Linlithgow.	2	J. D. M. Watson, Edinburgh.
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C. G. KNOTT, D.Sc., *Lecturer*.

EXPERIMENTAL PHYSICS.**Advanced Honours.***First-Class Certificates.*

G. P. Smith, Linlithgow (<i>Medal and Prize</i>).	R. McCallum, Edinburgh.
J. W. Thomson, Penicuik (<i>Prize</i>).	J. S. Parker, Edinburgh.

Second-Class Certificates.

A. Marshall, Edinburgh.	G. M. Martin, East Calder.
Elizabeth Barr, Lanarkshire.	

Not attending for the first time.

First-Class Certificate.—G. S. Mill, Anstruther.

Second-Class Certificates.

J. Cassels, Scotland.	J. D. M. Watson, Edinburgh.
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Intermediate Honours.*First-Class Certificates.*

Margaret P. White, Edinburgh (<i>Medal and Prize</i>).	Annie S. Paterson, Roxburghshire.
J. Mackenzie, Sutherlandshire.	T. A. Brown, Edinburgh.

Second-Class Certificates.

Catherine B. Mills, Leith.	D. Jeffrey, Edinburgh.
J. B. Guthrie, Leven.	W. A. Sinclair, Orkney.
Isabella Drennan, Methil.	I. Ogilvie, Leith.

Not attending for the first time.

First-Class Certificate.—R. T. Dunbar, Broughty Ferry.

G. A. CARSE, M.A., D.Sc., *Lecturer.*

PHYSICAL OPTICS.*First-Class Certificates.*

J. W. Thomson (<i>Medal and Prize</i>).	G. P. Smith.
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Second-Class Certificates.

J. Angus.	J. D. M. Watson.
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J. R. MILNE, D.Sc., *Lecturer.*

CHEMISTRY.**Arts and Science First Course.***First-Class Certificates.*

1 William M. Ames.	} <i>Medallists</i>	9 Thomas M ^w . Millar.
2 Samuel Allen.		10 W. H. Cameron.
3 Alex. W. Owler.		11 G. B. Gourlay.
4 S. K. Panikkar.		12 Adam D. Macdonald.
5 John Morrison.		13 { William Cooper.
6 James H. B. Bell.		{ John T. Knight.
7 { John S. Robertson.		{ Dorothy G. Downie.
{ John S. Stevenson.		{ J. L. B. Wedderspoon.

Second-Class Certificates.

(Names in alphabetical order.)

Jacob Alexander.	J. J. Kotzé.
William M. Allan.	V. R. Krishna.
G. F. Ball.	Isidor Lippert.
H. B. Barclay.	John J. Low.
William E. Barnie.	Peter M'Donald.
Robert G. Broadwood.	A. G. MacGregor.
T. A. Burns.	John M'Intosh.
George Calder.	Mona Macnaughton.
M. S. Choudary.	George G. Mathewson.
Arthur G. Collinson.	Alexander Miller.
L. B. C. Cunningham.	James D. W. Mills.
Stewart Duns.	J. A. H. O'Sullivan.
James Erskine.	S. K. Pillai.
Ruth Fairbairn.	William H. Ritchie.
Francis Fermie.	H. L. Seppings.
James T. Flett.	Robert Francis Simpson.
Alexander Gibb.	David G. A. Stewart.
John H. Howie.	George H. Swan.
Walter F. Hutton.	Igor E. Tamm.
Elizabeth G. Inglis.	C. D. Walinck.
Hugh B. Johnston.	Thomas Wyllie.

Crum Brown Medal.—William M. Ames.LEONARD DOBBIN, Ph.D., *Lecturer.*JAMES WALKER, D.Sc., *Professor.***Arts and Science First Laboratory Course.***First-Class Certificates.*

1 William H. Ritchie.	4 { H. B. Barclay.
2 { Elizabeth G. Inglis.	
{ J. L. B. Wedderspoon.	{ Alison Bisset.

6	L. B. C. Cunningham.	22	Betty Boath.
	James T. Flett.		Stewart Duns.
	John H. Howie.		Ruth Fairbairn.
	Margaret Macgregor.		Wm. James Gracie.
	S. K. Panikkar.		J. J. Kotzé.
11	Douglas E. Calver.	28	Rachael G. Somerville.
	James Erskine.		Wilhelmina T. Allison.
	John T. Knight.		William M. Ames.
	M. B. Muddaiya.		William E. Barnie.
	S. K. Pillai.		W. H. Cameron.
17	John Reid.		Alexander Gibb.
	Robert G. Broadwood.		Walter F. Hutton.
	Thomas M'W. Miller.		Hugh B. Johnston.
	J. A. H. O'Sullivan.		Alex. W. Owler.
	John S. Robertson.		Elizabeth C. Rutherford.
	C. D. Walinck.		Thomas Wylie.

Second-Class Certificates.

(Names in alphabetical order.)

William M. Allan.	Robert M'Intosh.
Samuel Allen.	John MacKay.
James H. B. Bell.	Mary R. MacKenzie.
Jessie C. Bickett.	Mona Macnaughton.
James Brash.	George G. Mathewson.
Thomas A. Burns.	P. S. Menon.
George Calder.	Alexander Miller.
Eric Chalker.	James D. Mill.
M. S. Choudary.	James D. W. Mills.
William Cooper.	John Morrison.
H. W. Cowling.	Janet I. T. Old.
Agnes Crowe.	Hamish G. G. Pender.
R. Stewart Dorward.	Marion B. Robertson.
Dorothy G. Downie.	Maurice J. Ronder.
Francis Fermie.	H. L. Seppings.
Mary Good.	H. K. Seth-Smith.
G. B. Gourlay.	Hilda Southern.
Harold Jamieson.	John S. Stevenson.
V. R. Krishna.	David G. A. Stewart.
James M. Laing.	Andrew E. Swan.
R. C. Lodge.	George H. Swan.
John J. Low.	E. L. L. Turnbull.
Peter M'Donald.	Lilian A. Wares.
A. G. MacGregor.	

JAMES WALKER, D.Sc., *Professor.*

BOTANY.

Arts and Science Course.

First-Class Certificates.

- | | | | | |
|---|---|--------------------------|--|--|
| 1 | $\left\{ \begin{array}{l} \text{Walter F. Hutton,} \\ \text{Dunfermline.} \\ \text{Henry M. Steven, Lin-} \\ \text{lithgowshire.} \end{array} \right\}$ | <i>Medal-
lists.</i> | 5 | Isabella M. King, Dundee. |
| | | | 6 | $\left\{ \begin{array}{l} \text{Jane Thorburn, Berwickshire.} \\ \text{Alexander M. Marr, Edin.} \end{array} \right\}$ |
| 3 | | | $\left\{ \begin{array}{l} \text{William H. Cameron, Edin.} \\ \text{Ernest H. Smale, Edinburgh.} \end{array} \right\}$ | 8 |

Second-Class Certificates.

- | | | | |
|----|---|----|---|
| 9 | $\left\{ \begin{array}{l} \text{Stewart Duns, Duns.} \\ \text{Johannes J. Kotzé, B.A., South} \\ \text{Africa.} \end{array} \right\}$ | 24 | Elsie J. Cadman, Leith. |
| 11 | | 25 | $\left\{ \begin{array}{l} \text{John Anthony, Leith.} \\ \text{David S. Spence, Stromness.} \end{array} \right\}$ |
| | $\left\{ \begin{array}{l} \text{Cedric Maya Das, India.} \\ \text{Ruth Fairbairn, Duns.} \end{array} \right\}$ | 27 | Alexander H. M. Moir, Edin. |
| 12 | $\left\{ \begin{array}{l} \text{James C. Macdougall, Kil-} \\ \text{calmonell.} \end{array} \right\}$ | 28 | David R. Cromb, Edinburgh. |
| | | 29 | John P. Hope, Musselburgh. |
| 14 | Bertram T. Fraser, Leith. | 30 | James M'Intyre, Galashiels. |
| 15 | Elizabeth A. M'Leish, Birnam. | 31 | Angus M. M'Cracken, New-
castle-on-Tyne. |
| 16 | William A. Forsyth, Montrose. | 32 | Alastair J. MacRae, Tarbert. |
| | $\left\{ \begin{array}{l} \text{Robert G. Broadwood, Edin.} \\ \text{Eric Chalker, Wiltshire.} \end{array} \right\}$ | 33 | Hermione Milne, M.A., B.Sc.,
India. |
| 17 | $\left\{ \begin{array}{l} \text{Arthur G. Collinson, M.A.,} \\ \text{Edinburgh.} \end{array} \right\}$ | 34 | $\left\{ \begin{array}{l} \text{William Anderson, Jedburgh.} \\ \text{Francis A. Patrick, Edinburgh.} \end{array} \right\}$ |
| | | 36 | Frank B. Mackenzie, M.A.,
Edinburgh. |
| 20 | $\left\{ \begin{array}{l} \text{Evangeline B. A. Macdonald,} \\ \text{Invergordon.} \end{array} \right\}$ | | $\left\{ \begin{array}{l} \text{Douglas E. Calver, Kil-} \\ \text{marnock.} \end{array} \right\}$ |
| | $\left\{ \begin{array}{l} \text{S. K. Pillai, India.} \\ \text{Mona Macnaughton, Perth.} \end{array} \right\}$ | 37 | Alastair C. M. Gordon, Ayr. |
| 22 | Fernie L. Buttar, Musselburgh. | | |

FOR A HERBARIUM OF PLANTS COLLECTED ON THE
CLASS EXCURSIONS.*First-Class Certificates.*

- | | |
|---------------------------------------|-----------------------|
| John Anthony, Leith (<i>Prize</i>). | Raphael Farhi, Syria. |
| Elsie J. Cadman, Leith. | |

Second-Class Certificate.

William H. Cameron, Edinburgh.

FOR A SERIES OF DRAWINGS ILLUSTRATING THE WORK
OF THE CLASS.*First-Class Certificate.*

Elizabeth A. M'Leish, Birnam.

Second-Class Certificates.

William H. Cameron, Edinburgh.
Stewart Duns, Duns.

Bertram T. Fraser, Leith.

FOR A SERIES OF MICROSCOPICAL PREPARATIONS ILLUSTRATING
THE WORK OF THE CLASS.

First-Class Certificates.

Robert G. Broadwood, Edinburgh. | Douglas E. Calver, Kilmarnock.

Second-Class Certificates.

David R. Cromb, Edinburgh. | Cedric Maya Das, India.

R. C. DAVIE, M.A., B.Sc., *Lecturer.*

ISAAC BAYLEY BALFOUR, M.D., D.Sc., *Professor.*

HISTORY.**Honours Class.***Prizes and First-Class Certificates.*

1 Thomas M. Steven (*Medallist*). | 2 { Thomas D. Fairgrieve.
| { John Younie.

Second-Class Certificates.

4 { Robert S. Brydon.
| { Jeremiah Dalziel, M.A.

Ordinary Class.*First-Class Certificates.*

1 Chas. Boyd M'Alpine (<i>Medal</i>).	} <i>Prizes</i>	5 Robert Gilroy Bannerman.
2 Wm. Hutton Marwick.		6 Charles Michael Hepburn.
3 Jas. W. Thomson.		
4 John J. B. Martin.		

Second-Class Certificates.

Jessie Currie Ainslie.
Hope Pitcairn Anderson.
Elizabeth Janet Boag.
George Bain Burnet.
Maysie Deas.
Elizabeth Scott Elliot.
Mary Chalmers Henderson.
Archibald William Hunter.
Mary Evelyn Kerr.
Violet B. M'Callum.

John MacInnes.
James Mill.
Mary Lawrie Prosser.
Matthew Colville Reid.
Harold Thomas Speirs.
Jessie Stevenson.
John James Scott Thomson.
Charles Walls.
Robert French Moncur Watson.
Helen Isabella Wilkie.

RICHARD LODGE, M.A., LL.D., *Professor.*

BRITISH CONSTITUTIONAL HISTORY.**Honours Class.**

1 John Younie, Moray-shire.	} <i>Prize-men</i>	+	Alfred James Ogilvie Brown, Edinburgh.
2 Thos. Dalgleish Fairgrieve, Edinburgh.			Robert Somerville Brydon, Edinburgh.
3 Thomas Morton Steven, Ayrshire.			Mary Wilson Barrie, Lanarkshire.

J. H. MILLAR, M.A., LL.B., *Professor.*

PALÆOGRAPHY.*Second-Class Certificates.*

Caroline C. Thompson, Keith. | D. B. McAlpine, Edinburgh.

ANCIENT (SCOTTISH) HISTORY.*First-Class Certificates.*

Margaret H. Anderson, Leith. | Margaret H. Pringle, Edinburgh.

Second-Class Certificates.

Jane A. M. Inverarity, Edinburgh. | Geoffrey S. A. Nicholson, Edin.

P. HUME BROWN, M.A., LL.D., *Professor.*

SCOTTISH HISTORY.**Ordinary Class.***First-Class Certificates (arranged alphabetically).*

Christina M. Coghill, Thurso. | Margaret J. Swanson, Wick.

Second-Class Certificates.

Edward MacRae, Edinburgh. | Anna J. M. Ross, Invergordon.
Kenneth MacRae, Edinburgh. |

HENRY W. MEIKLE, M.A., D.Litt., *Lecturer.*

P. HUME BROWN, M.A., LL.D., *Professor.*

Scottish History from 1513 (Summer Term).*First-Class Certificates (arranged alphabetically).*

Margaret H. Anderson, Leith. | Margaret H. Pringle, Edinburgh.
Jane A. M. Inverarity, Edinburgh. |

HENRY W. MEIKLE, M.A., D.Litt., *Lecturer.*

ECCLESIASTICAL HISTORY.**Honours Class.***First-Class Certificates.*

{	Cecil J. Heughan, Skipton.
{	G. H. Schneider, Yorkshire.

Second-Class Certificate.

W. J. Crossland Briggs, Yorkshire.

JAMES MACKINNON, Ph.D., D.D., *Professor.***ANCIENT HISTORY.****Honours Half-Courses.***Autumn Term*—ROMAN HISTORY, 70-29 B.C.*First-Class Certificates.*

1 John Younie.	3 T. M. Steven.
2 J. G. Shearer.	

Second-Class Certificates.

4 W. J. Cuthbert.	6 Daniel Stalker, M.A.
5 E. G. M'Alpine, M.A.	7 A. S. Clark.

Summer Term—GREEK HISTORY, 490-429 B.C.*First-Class Certificates.*

1 J. G. Shearer.	3 I. E. de Watteville, M.A.
2 R. T. Adamson.	4 John Whittaker.

Second-Class Certificates.

5 Annie Anderson.	7 A. S. Clark.
6 J. C. MacIver.	

Ordinary Graduation Class (Three-Term Course).*First-Class Certificates and Prizes.*

1 J. G. Shearer (<i>Medal</i>).	2 J. N. Dandie.
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Second-Class Certificates.

3 Jane S. Lindsay.	4 Mary M. Loudon.
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**Attendances in Single Terms (Non-Qualifying Introductory
Half-Courses for Honours Students).**

Certificates of Merit.

<i>Autumn Term.</i>	<i>Spring Term.</i>	<i>Summer Term.</i>
1 { Don. MacPherson, David Milne.	1 { David Milne. I. E. de Watteville, M.A.	1 L. J. Saunders.
3 Annie Anderson.	3 Don. MacPherson.	2 Don. MacPherson.
4 C. I. Anderson.	4 A. J. J. Latta.	3 R. T. Adamson.
	5 C. I. Anderson.	4 Annie Anderson.
	6 James Farquhar.	
	7 Florence E. Herriot.	

A. F. GILES, M.A., *Lecturer.*

COLONIAL AND INDIAN HISTORY.

First-Class Certificate.

Laurance James Saunders, Stirling.

J. MUNRO, M.A., *Lecturer.*

BRITISH HISTORY to 1807.

Honours Half-Course (Autumn Term).

First-Class Certificates.

1 Francis Campbell Hood, Leith (<i>Medal</i>).	2 { J. I. Miller, Glasgow. N. K. Paterson, Edinburgh. Margaret H. Pringle, Edin.
	5 J. Gould, Edinburgh.

Second-Class Certificates.

6 W. J. Carrie, Edinburgh.	9 Margaret H. Anderson, Edinburgh.
7 { G. K. H. Cochrane, Edinburgh. T. M. Dow, Glasgow.	10 Margaret J. Falconer, Edinburgh.

BRITISH HISTORY, 1485-1660.

Honours Half-Course (Summer Term).

First-Class Certificates.

1 Margaret H. Pringle, Edinburgh (<i>Medal</i>).	3 G. K. H. Cochrane, Edinburgh.
2 F. D. Hislop, Edinburgh.	4 C. B. M'Alpine, Edinburgh.

Second-Class Certificates.

- | | | | |
|---|------------------------------------|----|------------------------------------|
| 5 | { Margaret J. Falconer, Edinburgh. | 10 | { R. G. Bannerman, Edinburgh. |
| | { J. Gould, Edinburgh. | | { Jane A. Inverarity, Edinburgh. |
| | { H. S. E. Stevens, India. | 13 | { W. A. F. Hepburn, M.A., |
| 8 | { Alice H. Williamson, Edinburgh. | | { Kirkcudbright. |
| 9 | { W. J. Carrie, Edinburgh. | 14 | { E. G. M'Alpine, M.A., Edinburgh. |

MACKAY LECTURES IN HISTORY.**Summer Term.***First-Class Certificates.*

- | | | | |
|---|---|---|------------------------------------|
| 1 | William Hutton Marwick, Edinburgh (<i>Medal</i>). | | { Margaret J. Falconer, Edinburgh. |
| 2 | J. J. B. Martin, Oban. | 3 | { T. G. Smeaton, M.A., Dundee. |
| | | | { Alice H. Williamson, Edin. |
| | | 6 | { A. Nicol, M.A., Falkirk. |

Second-Class Certificates.

- | | | | |
|---|-------------------------------------|----|-------------------------------|
| 7 | A. W. Hunter, Edinburgh. | | { Maysie Deas, Edinburgh. |
| | { Margaret M. Bannerman, Edinburgh. | 13 | { J. R. K. Jack, Addiewell. |
| 8 | { Dorothy A. Edwards, Edin. | | { Edith Southall, Glamorgan. |
| | { Harold Speirs, Galashiels. | | { R. F. M. Watson, Edinburgh. |
| | { Jessie Wakelen, Edinburgh. | 17 | { M. C. Reid, Alloa. |
| | { Helen I. Wilkie, Edinburgh. | | |

POLITICAL SCIENCE—The History of Political Thought.**Honours Half-Course (Spring Term).***First-Class Certificates.*

- | | | | |
|---|---|---|------------------------------|
| 1 | Laurance James Saunders, Stirling (<i>Medal</i>). | 4 | { J. Crawford, Leith. |
| 2 | R. B. Kerr, Auldearn. | | { W. H. Myles, M.A., Dunbar. |
| 3 | Margaret H. Pringle, Edin. | 6 | { W. J. Carrie, Edinburgh. |
| | | | { F. C. Hood, Leith. |
| | | 8 | { D. MacPherson, Edinburgh. |

Second-Class Certificates.

- | | | | |
|----|------------------------------------|----|------------------------------|
| 9 | Margaret H. Anderson, Edin. | | { J. Gould, Edinburgh. |
| 10 | { A. Nicol, M.A., Falkirk. | 16 | { W. M. Mitchell, Edinburgh. |
| | { J. R. Taylor, Leith. | | { W. A. Thomson, M.A., Edin. |
| | { A. J. O. Brown, Edinburgh. | 19 | { T. M. Dow, Glasgow. |
| 12 | { Margaret J. Falconer, Edin. | 20 | { N. V. L. N. Rao, India. |
| | { W. A. F. Hepburn, Kirkcudbright. | | |
| | { F. D. Hislop, Edinburgh. | | |

POLITICAL SCIENCE—The Modern State.**Honours Half-Course (Summer Term).***First-Class Certificates.*

- | | | | |
|---|---|---|--|
| 1 | Thomas Morton Steven,
Kilmarnock (<i>Medal</i>). | 7 | { J. Gould, Edinburgh.
F. C. Hood, Leith. |
| 2 | { W. Graham, Peebles.
R. B. Kerr, Auldearn. | 9 | { G. K. H. Cochrane, Edin.
W. M. Mitchell, Edinburgh. |
| | { W. H. Marwick, Edinburgh.
J. I. Miller, M.A., Glasgow. | | |
| 4 | { R. Robertson, M.A., Dunfermline. | | |

Second-Class Certificates.

- | | | | |
|----|---|----|---|
| 11 | { Margaret H. Anderson, Edin.
Margaret H. Pringle, Edin. | 16 | { G. G. Doughty, Edinburgh.
T. M. Linkie, Edinburgh. |
| 13 | T. Milne, Dundee. | | { T. G. Smeaton, M.A., Dundee. |
| 14 | { Margaret J. Falconer, Edin.
C. B. M'Alpine, Edinburgh. | | |

POLITICS—Elementary.**Spring Term.***Certificates of Merit.*

- | | |
|---------------------------------|---------------------------------|
| H. P. Anderson, Edinburgh. | W. H. Marwick, Edinburgh. |
| Margaret M. Bannerman, Edin. | J. Mill, Wormit-on-Tay. |
| Isabella E. Campbell, Colinton. | Edith S. Southall, Glamorgan. |
| J. R. K. Jack, Addiewell. | Alice H. Williamson, Edinburgh. |
| Mary E. Kerr, Burghead. | E. J. Wilson, Haddington. |

D. P. HEATLEY, *Lecturer.***FINE ART.****Classical Archæology—Honours Course.***First-Class Certificates.*

- | | |
|--|--|
| May L. W. Scott (<i>Prize for Class Work</i>). | David D. Williams (<i>Prize for Class Essays</i>). |
|--|--|

Ordinary Class.

- | | |
|--|--|
| Helen A. E. Gunn (<i>Medal and First-Class Prize</i>). | Harriet J. Cogie (<i>Cousin Prize for Class Essays</i>). |
| Dorothy G. Davidson (<i>Second-Class Prize</i>). | Mary H. W. Jaczewska (<i>Second Prize for Class Essays</i>). |
| James Brash. | Christina A. Dalgety. |
| William J. E. Briggs. | Elizabeth B. Pithie. |
| | Annie Tocher. |
| | Bertha D. Wright. |

Second-Class Certificates.

Anna P. Davidson.	A. Ewen Millson.
Helen Horrox.	Elizabeth B. Paterson.
Jessie N. Leitch.	Eliza T. Salvesen.
Maud Lindsay.	Louisa A. Sleath.
Mary Stuart Mackellar.	Effie H. C. Steven.
Jeanie Mackintosh.	Bessie Sutherland.
Andrew I. Messer.	Elizabeth K. H. Wight.

G. BALDWIN BROWN, M.A., *Professor.*

GEOGRAPHY.**Advanced Class (Spring Term).***First-Class Certificates.*

- | | |
|---------------------------------------|----------------------|
| 1 William J. Carrie (<i>Medal</i>). | 2 Donald MacPherson. |
|---------------------------------------|----------------------|

Second-Class Certificates.

Wm. A. F. Hepburn, M.A.	Andrew Nicol.
Lachlan D. Loraine.	R. M. Perkins.

Honours Class (Summer Term).*First-Class Certificates.*

- | | | |
|----------------------------------|--------------------|-------------------|
| 1 Andrew Nicol (<i>Medal</i>). | 2 A. B. Hare, M.A. | 3 Hugh Callander. |
|----------------------------------|--------------------|-------------------|

Second-Class Certificates.

Lachlan D. Loraine.	Edward G. M'Alpine.
---------------------	---------------------

Ordinary Class.*First-Class Certificates.*

- | | | |
|-------------------------------------|------------------------|---------------------|
| 1 James N. Dandie (<i>Medal</i>). | 3 Gertrude M. Beevers. | 7 { James Anderson. |
| | { Arch. W. Hunter. | { Robert Frame. |
| 2 Thomas M'Kenzie. | 4 { James Walker. | 9 Charles F. Hoy. |
| | 6 Isa S. Anderson. | |

Second-Class Certificates (in alphabetical order).

Gwendolen E. Bairstow.	Violet B. M'Callum.
John Bartholomew.	Peter M'Donald.
Edith M. Beveridge.	Muriel G. Mackichan.
Lizzie C. S. Brydone.	Andrew Mathison.
Ethel M. Downie.	James D. Mill.
Janet Guthrie.	Arthur Mowat.
Charles M. Hepburn.	Robert Ross.
Mary M. G. Hourston.	Barbara D. Waters.
Walter Jamieson.	Ronald R. Whitcombe.

Also, on results of two examinations only—James Henderson and Margaret G. Leitch.

GEO. G. CHISHOLM, M.A., B.Sc., *Lecturer.*

FACULTY OF SCIENCE.

ASTRONOMY.

First-Class Certificates.

- | | | | |
|---|---|---|-------------------|
| 1 | Jas. S. Parker (<i>Medal and Ramsay Prize</i>). | 6 | { Thos. A. Brown. |
| | | | { David Jeffrey. |
| 2 | { Alex. S. Tennant. } <i>Ramsay</i> | 8 | W. F. M'Ewen. |
| | { Jas. E. Guthrie. } <i>Prizes.</i> | 9 | Andrew W. Young. |
| 4 | { George M. Martin. | | |
| | { David L. M. Tod. | | |

R. A. SAMPSON, D.Sc., *Professor.*

GEOLOGY AND MINERALOGY.

*Three-Term Course.**First-Class Certificates.*

- | | | | |
|---|------------------------------|---|---------------------------|
| 1 | R. G. Bannerman, Dumfries | 3 | Robert M'Call, Ayr. |
| | (<i>Medallist</i>). | 4 | Angus H. Campbell, India. |
| 2 | Augusta Lamont, Argyllshire. | | |

Second-Class Certificates.

- | | | | |
|----|-----------------------------------|----|---------------------------------|
| 5 | William J. S. Baird, Edinburgh. | | { Janet A. Ewing, Portmahomack. |
| 6 | James Y. Erskine, Edinburgh. | 15 | { Lawrence Kerr, North Berwick. |
| 7 | Eliza M. Lindsay, Abernethy. | | { Peterina M. Munro, Edinburgh. |
| 8 | R. M. Perkins, Edinburgh. | | { Jessie C. Bickett, Castle- |
| 9 | David H. Soutar, Glasgow | 18 | { Douglas. |
| | Beatrice C. M'Pherson, Edinburgh. | | { Harry P. D. Hills, Colinton. |
| 10 | { D. M. Reid, Edinburgh. | 20 | William Jenkins, Edinburgh. |
| | { James Templeton, Annan. | 21 | James K. Rutherford, West |
| | { John Watson, Edinburgh. | | Calder. |
| 14 | Charles A. Maclean, Tobermory. | 22 | R. H. C. Telfer, Peru. |
| | | 23 | W. Turner Thomson, Edinburgh. |

John Mackenzie, who was unavoidably absent from one examination, was awarded a *First-Class Certificate*.

JAMES GEIKIE, D.C.L., LL.D., *Professor.*

PRACTICAL GEOLOGY.**Three-Term Course.***First-Class Certificates.*

- | | | | |
|---|--|---|-------------------------------|
| 1 | Thomas Scott, Edinburgh
(<i>Medallist</i>). | 4 | Augusta Lamont, Argyllshire. |
| 2 | { Angus H. Campbell, India. | 5 | R. G. Bannerman, Dumfries. |
| | { Robert M'Call, Ayr. | 6 | Eliza M. Lindsay, Haddington. |

Second-Class Certificates.

- | | | | |
|----|--------------------------------|----|---------------------------------|
| 7 | James Harley, Edinburgh. | | { Jessie C. Bickett, Castle- |
| 8 | { Janet A. Ewing, Portuna- | 14 | { Douglas. |
| | { homack. | | { Douglas M. Reid, Edinburgh. |
| | { James Templeton, Annan. | 16 | { W. J. P. Sinclair, Edinburgh. |
| | { Harry P. D. Hills, Colinton. | | { W. J. S. Baird, Edinburgh. |
| | { R. H. C. Telfer, Peru. | 17 | { Beatrice C. M'Pherson, Edin- |
| 10 | { John Watson, Edinburgh. | | { burgh. |
| | { Andrew F. MacCulloch, Nairn. | 19 | Peterina M. Munro, Edin. |
- ROBERT CAMPBELL, M.A., D.Sc., *Demonstrator*.
 THOMAS M. FINLAY, M.A., B.Sc., *Demonstrator*.
 JAMES GEIKIE, D.C.L., LL.D., *Professor*.

STRUCTURAL AND FIELD GEOLOGY.**Summer Term.***First-Class Certificates.*

- | | | | |
|---|--|---|--------------------------------|
| 1 | Thomas E. Clements, China
(<i>Medallist</i>). | 4 | J. Roy Saidler, Edinburgh. |
| 2 | { Thomas Heath Dalton,
Staffordshire. | 5 | Robert B. Campbell, Lockerbie. |
| | { James H. Elder, Haddington. | 6 | James H. Wilson, Orkney. |

Second-Class Certificates.

- | | | | |
|----|---------------------------------------|----|----------------------------------|
| 7 | James R. Russell, Selkirk. | | { Andrew Carmichael, Portobello. |
| 8 | John Murray Chrystal, Edin. | 21 | { D. Menzies Fraser, Inverness. |
| 9 | { James A. M'Millan, Kirkcaldy. | | { Adam Millar, Edinburgh. |
| | { Andrew H. W. Weir, Edin. | 24 | { Francis Halliday Allan, Edin. |
| 11 | D. G. Diacoff, Bulgaria. | | { Richard C. Johnson, Darling- |
| 12 | James Bryce, Aberdeen. | 25 | { ton. |
| | { M. A. Asrani, India. | | { Thomas M. Swan, Kirkcaldy. |
| 13 | { Angus C. Baxter, Bute. | 27 | { Hamish G. Geils Pender, |
| | { Henry M. Dunbar, Broughty
Ferry. | | { Argyllshire. |
| 16 | { Mark L. Anderson, Kinneff. | | { Aylmer R. Wishart, Edin. |
| | { Robert M. Ross, Wick. | 29 | { T. A. Wilson, Dalkeith. |
| 18 | James M. Laing, Nairn. | | { John H. Mitchell, Colinton. |
| | { Joseph Grant, Wick. | | { Cyril M. Hake, Newcastle-on- |
| 19 | { S. K. Pillai, India. | 31 | { Tyne. |
| | | | { Leslie W. Innes, Mauritius. |
| | | | { J. E. M. Noad, Perth. |

William R. Cairns and Alexander M. Telford, who were unavoidably absent from one examination, were also awarded Honours Certificates.

JAMES GEIKIE, D.C.L., LL.D., *Professor*.

PETROLOGY.**Summer Term.***First-Class Certificates.*

- | | |
|--|-----------------------------|
| 1 Robert M'Call, Ayr (<i>Medallist</i>). | 3 William Barr, Haddington. |
| 2 Thomas Scott, Edinburgh | 4 Robert Allan, Edinburgh. |

Second-Class Certificates.

- | | |
|--------------------------------|--------------------------------|
| 5 Maud Lindsay, Edinburgh. | 8 Christina A. Younie, Banff. |
| 6 Lucy M. A. Smith, Edinburgh. | 9 John S. Gerrard, Edinburgh. |
| 7 James Harley, Edinburgh. | 10 Robert R. Walls, Edinburgh. |

ROBERT CAMPBELL, M.A., D.Sc., *Lecturer.*

PALÆONTOLOGY.**Autumn Term.***First-Class Certificates.*

- | | |
|---|--|
| 1 William Barr, Haddington
(<i>Medallist</i>). | 2 { William J. Carrie, Edinburgh.
John S. Gerrard, Edinburgh. |
|---|--|

Second-Class Certificates.

- | | |
|-------------------------------|--|
| 4 Helen Mason, Dunbar. | { Maud Lindsay, Edinburgh.
Thomas Scott, Edinburgh.
Lucy M. A. Smith, Edinburgh. |
| 5 Christina A. Younie, Banff. | |

W. T. GORDON, M.A., D.Sc., *Lecturer.*

CHEMISTRY.**Advanced Course.***First-Class Certificates.*

- | | |
|---|---------------------|
| 1 Norman C. Lucas (<i>Medallist</i>). | 2 A. F. Macculloch. |
|---|---------------------|

Second-Class Certificates.

- | | |
|------------------|----------------------|
| 3 A. D. Walker. | { 5 Abinash C. Bera. |
| 4 Ethel B. Duke. | |

Intermediate Course.*First-Class Certificates.*

- | | | |
|--|--------------------|-----------------------|
| 1 { James B. Lockhart.
Thomas A. Lumsden. | } <i>Medallist</i> | 3 William L. Baillie. |
| | | 4 Thomas MacKenzie. |
| | | 5 John Mitchell. |

Second-Class Certificates.

- | | | | |
|------|---------------------|------|---------------------|
| 6 { | William G. Calder. | 16 | Thomas Scott. |
| | William G. Dobson. | 17 | S. K. Tan. |
| 8 { | J. C. Mellor. | 18 { | Isabella M. King. |
| | Susan H. Newlands. | | S. Tiwary. |
| 10 | Thomas D. F. Scott. | 20 | Hugh M'Culloch. |
| 11 | Alex. N. Pennel. | 21 { | Angus H. Campbell. |
| | Edward Kellie. | | Robert B. Wilson. |
| 12 { | William S. Pender. | 23 | Catherine F. Grant. |
| | Mary I. Scobbie. | | |
| | G. W. Simpson. | | |

JAMES WALKER, D.Sc., *Professor.***BOTANY.****Advanced Course (Three Terms).***Medal and First-Class Certificate.*

- 1 Munro Briggs Scott, M.A., East Wemyss.

Second-Class Certificates.

- | | | | |
|---|---|---|---|
| 2 | John Macqueen Cowan, M.A.,
Banchory. | 5 | David Hastings Shiel, M.A.,
North Berwick. |
| 3 | Agnes Swan MacGarvie Alex-
ander, Edinburgh. | 6 | James Templeton, Annan. |
| 4 | James Lindsay Salmond Smith,
M.A., Arbroath. | 7 | Agnes Williamson Clark, Edin-
burgh. |

Intermediate Course (Autumn and Spring).*First-Class Certificate.*Munro Briggs Scott, M.A., East Wemyss (*Medallist*).*Second-Class Certificates.*

- | | | |
|---|--|--|
| Janet Arnot Ewing, M.A., Port-
mahomack. | | Eliza M'Kenzie Lindsay, M.A.
Abernethy. |
| | | Maud Lindsay, Edinburgh. |

ISAAC BAYLEY BALFOUR, M.D., D.Sc., *Professor.***PLANT PHYSIOLOGY.****Autumn and Spring Terms.***First-Class Certificates.*

- | | | | | |
|---|---|--|-----|---------------------------------------|
| 1 | Eliza M'Kenzie Lindsay,
M.A., Abernethy, Perthshire
(<i>Medallist</i>). | | 2 { | James Templeton, Annan. |
| | | | | James L. S. Smith, M.A.,
Arbroath. |

Second-Class Certificates.

- | | |
|--|--|
| 4 Maud Lindsay, Edinburgh. | 9 Agnes W. Clark, Edinburgh. |
| 5 Munro B. Scott, M.A., East Wemyss, Fifeshire. | 10 James Harley, Edinburgh. |
| 6 Beatrice Campbell M'Pherson, Edinburgh. | 11 Geoffrey A. P. Henderson, M.A., Edinburgh. |
| 7 Janet Arnot Ewing, M.A., Portmahomack, Ross-shire. | 12 John M. Cowan, M.A., Banchory, Kincardineshire. |
| 8 Mary A. H. Clark, Jedburgh. | 13 Janet M. M. Dingwall, Fife-shire. |

Summer Term.*Second-Class Certificate.*

Agnes S. M. Alexander, Edinburgh.

E. HOLMES SMITH, B.Sc., *Lecturer.*

ELEMENTARY ZOOLOGY.*First-Class Certificates.*

- 1 J. P. Hope (*Medallist*). | 2 M. L. Anderson. | 3 J. D. Lunan.

Second-Class Certificates.

- | | |
|----------------------|----------------------|
| 4 R. G. Broadwood. | 13 { D. H. Cameron. |
| 5 { A. C. Baxter. | 13 { E. Chalker. |
| 5 { W. H. Cameron. | 15 { W. F. Hutton. |
| 7 J. J. Kotzé. | 15 { M. B. Muddaiya. |
| 8 R. Farhi. | 17 { J. P. Mill. |
| 9 { F. B. Mackenzie. | 17 { P. R. Pillay. |
| 9 { C. A. Maclean. | 19 A. M. McCracken. |
| 11 { C. Maya Das. | 20 { H. Seth-Smith. |
| 11 { T. H. Dalton. | 20 { R. C. Lodge. |

PRACTICAL ZOOLOGY.*First-Class Certificates.*

- 1 J. J. Kotzé (*Medallist*). | 2 F. M. Ross. | 3 J. P. Hope.

Second-Class Certificates.

- | | |
|--------------------|---------------------------|
| 4 C. A. Maclean. | 10 P. R. Pillay. |
| 5 T. H. Dalton. | 11 { M. L. Anderson. |
| 6 R. G. Broadwood. | 11 { J. W. R. Sutherland. |
| 7 A. C. Baxter. | 13 { J. Leckie. |
| 8 W. F. Hutton. | 13 { M. S. Tun. |
| 9 T. K. Levin. | |

J. C. EWART, M.D., *Professor.*

Summer 1914.**INVERTEBRATE ZOOLOGY.**

- | | |
|--------------------------------------|-----------------------|
| 1 James Hope, M.A. (<i>Medal</i>). | 4 Elsie Harvey. |
| 2 R. R. Walls. | 5 J. S. Gerrard, M.A. |
| 3 G. F. Ball. | 6 Robert Allan. |

J. H. ASHWORTH, D.Sc., *Lecturer.***SENIOR ENGINEERING.***First-Class Certificates.*

- | | |
|---|--|
| 1 A. M. Cleghorn, Scotland
(<i>Medal and Prize</i>). | 6 { G. P. Douglas, Scotland.
J. A. Marsden, Scotland. |
| 2 T. C. Greenfield, Scotland. | 8 F. K. Watson, S. Australia. |
| 3 T. A. Johnston, New Zealand. | 9 E. G. Diacoff, Bulgaria. |
| 4 J. E. Davidson, Scotland. | 10 C. G. D. Sandison, Shetland. |
| 5 T. G. Richmond, Scotland. | 11 G. A. Robinson, Scotland. |
| | 12 M. B. Retarekar, India. |

Second-Class Certificates.

- | | |
|------------------------|---------------------------|
| D. K. Bhawe, India. | J. H. Mitchell, Scotland. |
| T. Davidson, Scotland. | G. M. Philip, Scotland. |
| C. W. Grant, India. | S. E. Rizk, Egypt. |
| G. J. Kennedy, India. | |

Autumn and Spring Terms only.*Second-Class Certificate.*

N. A. McNeill, Scotland.

Autumn Term only.*Second-Class Certificate.*

J. T. Johnstone, Scotland.

JUNIOR ENGINEERING.*First-Class Certificates.*

- | | |
|--|--------------------------------|
| 1 J. H. Wilson, Orkney (<i>Medal and Prize</i>). | 9 A. M. Telford, Scotland. |
| 2 A. Carmichael, Scotland. | 10 J. M. Chrystal, Scotland. |
| 3 C. M. Hake, England. | 11 A. J. R. Wishart, Scotland. |
| 4 M. A. Asrani, India. | 12 L. Gordin, Russia. |
| 5 H. M. Dunbar, Scotland. | 13 V. M. Moodliar, India. |
| 6 { B. S. Chetti, India.
T. E. Clements, China. | 14 J. R. Saidler, Scotland. |
| 8 D. G. Diacoff, Bulgaria. | 15 R. M. Ross, Scotland. |
| | 16 J. R. Russell, Scotland. |

Second-Class Certificates.

F. H. Allan, Scotland.
 H. W. Cowling, India.
 D. M. Fraser, Scotland.

W. M. M'Gregor, Scotland.
 J. S. Morrison, Scotland.
 H. G. G. Pender, Scotland.

Spring Term—Second-Class Certificate.

R. M. Drynan, Scotland.

SANITARY ENGINEERING AND BUILDING CONSTRUCTION.

First-Class Certificates.

1 A. Rutherford, Scotland.
 2 J. W. Gray, Scotland.

3 V. M. Lambah, India.
 4 J. A. Henderson, Scotland.

FOREST ENGINEERING AND ENGINEERING DRAWING.

First-Class Certificates.

1 H. M. Steven, Scotland.
 2 I. D. Macpherson, Scotland.
 3 D. C. Fergusson, Scotland.
 4 R. D. Robertson, Scotland.

5 W. A. Fraser, New Zealand.
 6 H. V. Lely, England.
 7 H. C. Smith, England.

Second-Class Certificates.

J. A. E. Alexander, Scotland.
 F. O. Bain, Scotland.
 J. L. Bell, England.

M. C. Chandy, India.
 R. M. Yorston, Scotland.

Summer 1914.

INTRODUCTORY ENGINEERING.

First-Class Certificates.

1 J. Alexander, Scotland.
 2 J. A. H. O'Sullivan, Ireland.
 3 A. R. Hutchieson, England.
 4 J. S. Stevenson, Scotland.

5 J. T. Flett, Orkney.
 6 B. H. Puckle, England.
 7 S. K. Panikkar, India.
 8 E. L. L. Turnbull, Scotland.

Second-Class Certificates.

M. A. Asrani, India.
 H. A. Bignold, Scotland.
 W. J. Gracie, Scotland.
 B. Hopfenberg, Poland.
 T. D. Lippert, Russia.
 G. G. Mathewson, Scotland.
 H. W. W. Miller, Scotland.

D. Prince-Smith, India.
 F. B. Ritchie, Scotland.
 D. L. Scotland, India.
 A. S. Sinclair, Scotland.
 A. E. Swan, Scotland.
 J. E. Young, Scotland.

ENGINEERING FIELD WORK.**Senior Division.***First-Class Certificates.*

J. Grant, Scotland. | Sh. Rizk, Egypt.

Second-Class Certificates.

D. M. Fraser, Scotland. | T. Hwang, China.

Junior Division.*First-Class Certificates.*

- | | | | |
|----|--|----|------------------------------|
| 1 | { James Miller, Orkney. | 14 | D. G. Diacoff, Bulgaria. |
| | { J. H. Wilson, Orkney (<i>Medal and Prize</i>). | 15 | C. A. Maclean, Scotland. |
| 3 | { R. W. M'Caskie, Scotland. | 16 | { C. M. Hake, England. |
| 4 | A. Carmichael, Scotland. | | { R. M. Yorston, Scotland. |
| 5 | J. Roy Saidler, Scotland. | 18 | J. A. Callen, Scotland. |
| 6 | { B. S. Chetti, India. | 19 | V. M. Moodliar, India. |
| | { H. M. Dunbar, Scotland. | 20 | R. M. Ross, Scotland. |
| 8 | W. J. Jenkins, Scotland. | 21 | { R. B. Campbell, Scotland. |
| 9 | J. M. Chrystal, Scotland. | | { F. B. Mackenzie, Scotland. |
| | { F. H. Allen, Scotland. | 23 | F. L. Buttar, Scotland. |
| 10 | { J. Bryce, Scotland. | 24 | J. R. Russell, Scotland. |
| | { J. E. M. Noad, India. | 25 | J. A. M'Millan, Scotland. |
| | { A. J. R. Wishart, Scotland. | 26 | A. Millar, Scotland. |

Second-Class Certificates.

- | | |
|---------------------------|---------------------------|
| N. M. Adyanthaya, India. | R. C. Johnson, England. |
| M. L. Anderson, Scotland. | W. M. M'Gregor, Scotland. |
| M. A. Asrani, India. | J. S. Morrison, Scotland. |
| F. O. Bain, Scotland. | B. H. Puckle, England. |
| A. C. Baxter, Scotland. | E. Rattner, Russia. |
| W. A. Cairns, Scotland. | A. M. Telford, Scotland. |
| T. H. Dalton, England. | A. I. Walker, India. |
| W. J. Douglas, Scotland. | J. E. Young, Scotland. |

T. HUDSON BEARE, M.Inst.C.E., *Professor.*

ENGINEERING DRAWING.*Autumn and Spring Terms.***Senior Class.***First-Class Certificates.*

- | | | | |
|---|---------------------------------------|----|----------------------|
| 1 | { J. Eadie Davidson. } <i>Medals.</i> | 7 | Fred. K. Watson. |
| | { T. A. Johnson. } | 8 | John H. Mitchell. |
| 3 | { Joseph Grant. | 9 | George P. Douglas. |
| | { Thomas C. Greenfield. | 10 | T. Guthrie Richmond. |
| 5 | A. M. Cleghorn. | 11 | C. G. D. Sandison. |
| 6 | Tiokyew Hwang. | | |

Second-Class Certificates.

- | | | | |
|----|-----------------------|----|--------------------|
| 12 | (James T. Johnstone. | 15 | George J. Kennedy. |
| | (James A. Marsden. | 16 | Shafik Rizk. |
| 14 | E. G. Diacoff. | | |

Junior Class.*First-Class Certificates.*

- | | | | |
|----|--------------------------------|----|--------------------|
| 1 | B. S. Chetti (<i>Medal</i>). | 11 | James H. Wilson. |
| 2 | M. A. Asrani. | 12 | Wm. M. M'Gregor. |
| 3 | Alexander M. Telford. | 13 | Robert M. Ross. |
| 4 | Thomas E. Clements. | 14 | James R. Russell. |
| 5 | Andrew Carmichael. | 15 | V. M. Moodliar. |
| 6 | D. G. Diacoff. | 16 | William W. Macrae. |
| 7 | Aylmer J. Wishart. | 17 | Francis Fermie. |
| 8 | James M. Laing. | 18 | H. W. Cowling. |
| 9 | Cyril M. Hake. | 19 | N. M. Adyanthaya. |
| 10 | John M. Chrystal. | 20 | John Ewart Young. |

Second-Class Certificates.

- | | | | |
|----|-------------------|----|------------------------|
| 21 | Leslie W. Innes. | 25 | R. Stewart Dorward. |
| 22 | Francis H. Allan. | 26 | George B. Ramsay. |
| 23 | Keith J. Hunt. | 27 | Charles W. Badger. |
| 24 | L. M. Gordin. | 28 | Duncan Menzies Fraser. |

Summer Term.**Senior Class.**

- | | | | |
|---|-------------------------------|----|-------------------------------|
| 1 | Thomas C. Greenfield, Edin- | 6 | James Eadie Davidson, Edin. |
| | burgh (<i>Medal</i>). | 7 | George T. Kennedy, India. |
| 2 | John H. Mitchell, Colinton. | 8 | C. G. D. Sandison, Shetland. |
| 3 | George P. Douglas, Chirnside. | 9 | A. M. Cleghorn, Dundee. |
| 4 | T. Guthrie Richmond, Edin. | 10 | James T. Johnstone, Scotland. |
| 5 | James A. Marsden, Edinburgh. | | |

Junior Class.*First-Class Certificates.*

- | | | | |
|---|-------------------------------|---|----------------------------|
| 1 | J. Scott Stevenson, Stirling- | 3 | M. A. Asrani, India. |
| | shire. | 4 | V. M. Moodliar, Hyderabad. |
| 2 | John A. H. O'Sullivan, Shil- | 5 | Francis Fernie, India. |
| | long. | | |

Second-Class Certificates.

- | | | | |
|---|----------------------------|----|-----------------------------|
| 6 | William M. M'Gregor, Edin. | 10 | S. K. Panikkar, Travancore. |
| 7 | George G. Mathewson, Dun- | 11 | Alexander R. Hutchieson, |
| | fermline. | | Somerset. |
| 8 | Keith J. Hunt, Australia. | 12 | Hugh B. Johnston, Scotland. |
| 9 | L. M. Gordin, Russia. | | |

W. HUME KERR, M.A., B.Sc., *Lecturer.*

APPLIED MATHEMATICS (ENGINEERING).*First-Class Certificates.*

1	{	J. Eadie Davidson, Edinburgh.	Medallists	3	T. O. Greenfield, Edinburgh.
		Geo. P. Douglas, Chirnside.		4	J. Grant, Wick.
				5	J. A. Marsden, Edinburgh.

Second-Class Certificates.

6	A. H. Cleghorn, Dundee.	11	J. M. Kitahjizade, Kerassunde.
7	{ T. E. Clements, Chefoo, China.	12	{ L. Gordin, Libau, Russia.
	{ H. W. Cowling, Rangoon.		{ J. E. M. Noad, Assam, India.
	{ T. G. Richmond, Edinburgh.		
	{ J. Roy Saidler, Edinburgh.		

C. G. KNOTT, D.Sc., *Lecturer.***ADVANCED PUBLIC HEALTH.***First-Class Certificate.*

- 1 Andrew Rutherford, M.B., Edinburgh (
- Medallist*
-).

Second-Class Certificates.

2	James Abbey Henderson, M.B., Edinburgh.	3	Cuthbert Scales, M.B., Bradford.
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C. HUNTER STEWART, M.B., D.Sc., *Professor.***AGRICULTURE AND RURAL ECONOMY.***First-Class Certificates.*

1	James Antony More, St Andrews (<i>Medal</i>).	5	James Kerr Bell, Hawick.
2	{ Thos. H. Dalton, Stafford.	6	R. B. Campbell, Lockerbie.
	{ James Miller, Orkney.	7	F. B. Mackenzie, Edinburgh.
4	Adam Millar, Edinburgh.	8	{ Thomas Graham, St Andrews.
			{ James A. M'Millan, Edinburgh.

Second-Class Certificates.

10	F. A. Stewart, Lasswade.	19	W. A. Cairns, Edinburgh.
11	James M'Gillivray, Edinburgh.	20	John J. Cowieson, Edinburgh.
12	{ William John Jenkins, Edin.	21	{ D. L. C. Duggal, India.
	{ Thomas M. Swan, Kirkcaldy.		{ G. C. Coull, Leith.
14	Chas. A. M'Lean, Tobermory.	23	R. C. Johnson, Darlington.
15	{ R. M. Buchan, Kirknewton.	24	{ J. A. Zachrisson, Panama.
	{ Mazhar Husain, India.		{ W. Bruce Martin, Edinburgh.
17	James A. Thom, Windygates.		{ L. C. Wise, Rhodesia.
18	A. C. Baxter, Portree.		

Report on Farm Excursions.

1	Adam Millar (<i>Medal</i>).	2	{ James A. More.
			{ F. B. Mackenzie.

ADVANCED AGRICULTURE.

First-Class Certificates.

- | | |
|--|--|
| 1 John W. Cassels, Kirkliston
(<i>Medal</i>). | 5 { Angus M'Lean, Dunbar.
George Scobie, Dunfermline.
F. A. Stewart, Lasswade. |
| 2 Primrose M'Connell, Essex. | 8 A. F. Watson, St Boswells. |
| 3 { John M. Murray, Murthly.
Samuel T. W. Wallace, Thornhill. | 9 James H. Elder, Drem. |
| | 10 James Bryce, Edinburgh. |
| | 11 { William F. Somervail, Kelso.
Alexander Hay, Montrose. |

Second-Class Certificates.

- | | |
|--|-----------------------------------|
| 13 James M'Gillivray, Edinburgh. | 19 George J. Fleming, Edinburgh. |
| 14 { Arch. C. Burton, Tyndrum.
James Taylor, Lochgelly. | 20 Bansi Dhar Kapoor, India. |
| 16 John C. Rae, Edinburgh. | 21 Kenneth W. Paul, Edzell. |
| 17 Mazhar Husain, India. | 22 James A. Thom, Windygates. |
| 18 William G. Douglas, Coldstream. | 23 George S. Cameron, Perthshire. |
| | 24 Donald Macdonald, Somerset. |

INDIAN AND COLONIAL AGRICULTURE
(GARTON COURSE).*First-Class Certificates.*

- | | |
|--|---|
| 1 { James Miller, Orkney (<i>Medal</i>).
Robert B. Campbell, Lockerbie.
Primrose M'Connell, Essex. | 4 { Roy W. M'Caskie, Dundee.
Mazhar Husain, India. |
| | 6 John W. Cassels, Kirkliston. |
| | 7 Kenneth W. Paul, Edzell. |

Second-Class Certificates.

- | | |
|----------------------------|-------------------------------|
| 8 James Taylor, Lochgelly. | 10 James M'Gregor, Edinburgh. |
| 9 Lancelot Wise, Rhodesia. | |

The Steven Scholarship has been awarded to Primrose M'Connell.
Prox. Acces.—James H. Elder.

ROBERT WALLACE, *Professor.*

AGRICULTURAL ENTOMOLOGY.

First-Class Certificates.

- | | |
|--|------------------------------------|
| 1 Daulat R. Sethi, India.) <i>Medal</i> | 6 James A. M'Millan, Edinburgh. |
| 2 James A. More, Fife.) <i>lists.</i> | 7 James Miller, Orkney. |
| 3 Wm. John Jenkins, Edinburgh. | 8 Frank B. Mackenzie, Edin. |
| 4 Robert B. Campbell, Dumfriesshire. | 9 Thomas H. Dalton, Staffordshire. |
| 5 Adam Millar, Edinburgh. | |

Second-Class Certificates.

- | | | | |
|----|---------------------------------|----|-----------------------------|
| 10 | A. C. Baxter, Bute. | 14 | Thomas Graham, Fife. |
| 11 | { William A. Cairns, Edinburgh. | 15 | Richard C. Johnson, Durham. |
| | { Chas. A. M'Lean, Argyllshire. | 16 | D. L. C. Duggal, India. |
| 13 | Jas. Kerr Bell, Roxburghshire. | | |

PRACTICAL AGRICULTURAL ENTOMOLOGY.*First-Class Certificates.*

- | | | | |
|---|--|----|---------------------------------|
| 1 | Daulat R. Sethi, India (<i>Medallist</i>). | 9 | { Frank B. Mackenzie, Edin. |
| 2 | James A. More, Fife. | | { Adam Millar, Edinburgh. |
| 3 | Robert B. Campbell, Dumfriesshire. | 11 | Wm. A. Cairns, Edinburgh. |
| 4 | James A. M'Millan, Edinburgh. | 12 | Charles A. M'Lean, Argyllshire. |
| | { Wm. John Jenkins, Edinburgh. | 13 | Roy W. M'Caskie, Forfarshire. |
| 5 | { James Miller, Orkney. | 14 | George C. Coull, Mid-Lothian. |
| 7 | Thomas D. Dalton, Staffordshire. | 15 | { D. L. C. Duggal, India. |
| | | | { Richard C. Johnson, Durham. |
| 8 | A. C. Baxter, Bute. | 17 | James Keir Bell, Roxburghshire. |
| | | 18 | Thomas M. Swan, Fife. |

FOREST ZOOLOGY.*First-Class Certificates.*

- | | | | |
|---|--|---|------------------------------|
| 1 | Henry M. Steven, Linlithgowshire (<i>Medallist</i>). | 3 | Samuel R. Donaldson, Orkney. |
| 2 | Maurice W. Gray, Orkney. | 4 | Eric MacDonald, Ayrshire. |

Second-Class Certificates.

- | | | | |
|---|----------------------------------|---|--------------------|
| 5 | { Fernie L. Bullar, Mid-Lothian. | 7 | H. C. Smith, Kent. |
| | { Hugh V. Lely, Sussex. | | |

PRACTICAL FOREST ZOOLOGY.*First-Class Certificates.*

- | | | | |
|---|---|---|--------------------------------|
| 1 | Maurice W. Gray, Orkney (<i>Medal</i>). | 3 | H. M. Steven, Linlithgowshire. |
| 2 | Samuel R. Donaldson, Orkney. | 4 | Fernie L. Bullar, Mid-Lothian. |

Second-Class Certificates.

- | | | | |
|---|---------------------------|---|--------------------|
| 5 | Hugh V. Lely, Sussex. | 7 | H. C. Smith, Kent. |
| 6 | Eric MacDonald, Ayrshire. | | |

R. STEWART MACDOUGALL, M.A., D.Sc., *Lecturer.*

FORESTRY.**Advanced Lecture Course.***First-Class Certificate*—1 I. D. Macpherson (*Medallist*).*Second-Class Certificates.*

2 H. M. Steven.	5 A. Macdonald.
3 R. D. Robertson.	6 P. R. Pillay.
4 W. A. Fraser.	6 J. A. Master.

Advanced Practical Course.*First-Class Certificates.*

1 D. Fergusson (<i>Medallist</i>).	3 R. D. Robertson.
2 I. D. Macpherson.	4 P. R. Pillay.

Second-Class Certificates.

5 H. V. Lely.	7 J. A. Master.
6 H. C. Smith.	8 W. A. Fraser.

First (Intermediate) Lecture Course.*First-Class Certificate*—1 M. L. Anderson (*Medallist*).*Second-Class Certificate*—2 R. M. Yorston.E. P. STEBBING, *Lecturer*.**FOREST MYCOLOGY.***First-Class Certificates.*

1 Mark L. Anderson, Kinneff (<i>Medallist</i>).	4 { Francis O. Bain, Kilmarnock. H. Cecil Smith, Tunbridge Wells.
2 Donald C. Fergusson, Perth- shire.	
3 W. A. Fraser, New Zealand.	
	6 P. T. Pillai, India.

Second-Class Certificates.

7 G. Aird Whyte, Edinburgh.	10 M. C. Chandy, India.
8 J. A. E. Alexander, Wick.	11 P. H. Rama Reddi, India.
9 Robert M. Yorston, Montrose.	

MALCOLM WILSON, D.Sc., *Lecturer*.

FOREST BOTANY.

- | | | | |
|---|---|---|---|
| 1 | Donald C. Ferguson, Scotland
(<i>Medallist</i>). | 4 | { F. O. Bain, Kilmarnock.
James L. Bell, Manchester. |
| 2 | Mark L. Anderson, Scotland. | 6 | H. Cecil Smith, Tunbridge Wells. |
| 3 | G. Aird Whyte, Edinburgh. | 7 | W. A. Fraser, New Zealand. |

Practical Forest Botany.

- | | | | |
|---|---|---|---|
| 1 | Donald C. Ferguson, Scotland
(<i>Medallist</i>). | 5 | { H. Cecil Smith, Tunbridge Wells.
F. O. Bain, Kilmarnock. |
| 2 | Mark L. Anderson, Scotland. | 7 | J. A. E. Alexander, Wick. |
| 3 | W. A. Fraser, New Zealand. | 8 | G. Aird Whyte, Edinburgh. |
| 4 | P. H. Rama Reddi, Madras. | | |

A. W. BORTHWICK, D.Sc., *Lecturer*.

FACULTY OF DIVINITY.**DIVINITY.****Third Year.***First-Class Certificates and Prizes.*

- | | | | |
|---|--|---|---|
| 1 | J. S. Ewen, M.A., B.Sc.,
Methlick. | 6 | { Robert Kerr, M.A., Leith.
J. H. Tytler, M.A., Newton-
more. |
| 2 | James Campbell, M.A., Edin. | | |
| | William Crawford, M.A.,
Fauldhouse. | | |
| | Walter Davidson, M.A.,
Hawick. | | |
| | A. E. Warr, M.A., Roseneath. | | |

Second-Class Certificates.

- | | |
|---|--|
| 8 | { D. M. Henry, M.A., Whithorn.
Archibald MacHardy, M.A., Edinburgh. |
|---|--|

Essays.

- | | | | |
|---|-------------|---|-------------|
| 1 | J. S. Ewen. | 2 | A. E. Warr. |
|---|-------------|---|-------------|

Second Attendance.

G. J. Edwards, M.A. (*Prize*).

Second Year.*First-Class Certificates and Prizes.*

- | | | | | |
|---|--------------------------------|---|---|----------------------------|
| 1 | G. T. Thomson, M.A., Edin. | 5 | { | J. R. Kilburn, M.A., Edin- |
| 2 | { P. H. Borrowman, M.A., Edin. | | | burgh. |
| | G. W. Hendrie, M.A., Dalmel- | | | R. F. Wilson, M.A., South |
| | ington. | | | Africa. |
| | { G. W. K. Macpherson, M.A., | | | |
| | Dingwall. | | | |

Second-Class Certificates.

- | | | | | |
|---|----------------------------|----------------------------|---|------------------------------|
| 7 | A. S. Smith, M.A., Forfar. | | 8 | Alex. Mackenzie, M.A., Skye. |
| | 9 | W. B. Campbell, Edinburgh. | | |

Essays.

- | | |
|---|---------------------|
| { | G. T. Thomson, M.A. |
| { | J. R. Kilburn, M.A. |

First Year.*First-Class Certificates and Prizes.*

- | | | | |
|---|---------------------------------|---|--------------------------|
| 1 | J. E. Davey, B.A. (Cantab.), | 4 | J. G. G. Cuthbert, M.A., |
| | Ireland. | | Hownam. |
| 2 | { A. J. Mackenzie, M.A., Edin. | 5 | { Thomas Hutchison, M.A. |
| | { Walter Simpson, M.A., Thurso. | | { John Younie, M.A. |

Second-Class Certificates.

- | | | | |
|---|---------------------------------|----|---------------------------|
| 7 | R. W. Turnbull, M.A., | 11 | W. E. Grimwood, Whitburn. |
| | Hawick. | 12 | P. C. Marr, M.A., Leith. |
| 8 | { J. M. Gow, M.A., Muthill. | | |
| | { D. W. Mackay, Farr. | | |
| | { H. J. S. Reavely, M.A., Gala- | | |
| | shiels. | | |

Essays.

- | | | | | |
|---|--------------|---|---|-------------------|
| 1 | J. E. Davey. | 2 | { | Thomas Hutchison. |
| | | | | Walter Simpson. |

W. P. PATERSON, D.D., *Professor.*R. H. FISHER, D.D., *Lecturer.*

BIBLICAL CRITICISM AND BIBLICAL ANTIQUITIES.

- | | | | |
|---|---|---|--|
| 1 | G. T. Thomson, M.A., B.A.
(Oxon.), Edinburgh (<i>Medal-</i>
<i>list</i>). | 4 | G. W. Hendrie, M.A., Dalmel-
lington. |
| 2 | W. Crawford, M.A., Fauld-
house. | 6 | P. H. Borrowman, M.A., Edin. |
| | A. E. Warr, M.A., Roseneath. | 7 | James Campbell, M.A., Edin. |

Honourable Mention.

- | | |
|---------------------------------|-----------------------------------|
| G. J. Edwards, M.A., Edinburgh. | G. H. Schneider, M.A., Yorkshire. |
| R. Kerr, M.A., Leith. | R. F. Wilson, M.A., South Africa. |
| J. H. Tytler, M.A., Newtonmore. | |

Ettes Prize.

Second Year—G. T. Thomson, M.A.

Third Year { W. Crawford, M.A.
A. E. Warr, M.A.JOHN PATRICK, D.D., *Professor.***ECCLESIASTICAL HISTORY.***First-Class Certificates.*

- | | | | | |
|---|---|-----------------|---|--|
| 1 | J. A. Davey, M.A.,
Ireland. | Medal-
ists. | 4 | John G. G. Cuthbert, M.A.,
Hownam. |
| | John S. Ewen, M.A.,
B.Sc., Methlick. | | 5 | Geo. B. Shepherd, M.A., Scot. |
| 3 | Walter Simpson, M.A., Thurso. | | 7 | A. E. Warr, M.A., Roseneath. |
| | | | 7 | William Crawford, M.A.,
Fauldhouse. |
| | | | 8 | Walter Davidson, M.A., Cavers. |
| | | | 8 | John Younie, M.A., Fochabers. |

Second-Class Certificates.

- | | | | |
|----|-------------------------------|----|---------------------------------------|
| 10 | Robert C. Kerr, M.A., Lowick. | 14 | Jas. Campbell, M.A., Mother-
well. |
| | J. H. Tytler, M.A., Aberdeen. | | |
| 12 | J. M. Gow, M.A., Edinburgh. | | |
| | P. C. Marr, M.A., Leith. | | |

JAMES MACKINNON, Ph.D., D.D., *Professor.***SENIOR HEBREW.****Divinity Section.***Prizes, with First-Class Certificates of Merit.*

- | | | | |
|---|--|---|--------------------------------------|
| 1 | Geo. T. Thomson, M.A.,
Edinburgh (<i>Medalist</i>). | 3 | P. H. Borrowman, M.A.,
Edinburgh. |
| 2 | R. F. Wilson, M.A., South
Africa. | 4 | George B. Shepherd, M.A.,
Wick. |

Second-Class Certificates of Merit.

- | | |
|--|---|
| 5 John R. Kilburn, M.A.,
Edinburgh. | 7 Andrew F. Simpson, M.A.,
Portobello. |
| 6 Gairdner W. Hendrie, M.A.,
Dalmellington. | 8 Alex. S. Smith, M.A.,
Arbroath. |

Arts Section.*Prize, with First-Class Certificate of Merit.*

Hamilton A. R. Gibb, Edinburgh.

Second-Class Certificate of Merit.

G. H. Schneider, Yorkshire.

JUNIOR HEBREW.*Prizes, with First-Class Certificates of Merit.*

- | | |
|---|---|
| 1 R. W. Turnbull, M.A.,
Hawick (<i>Medallist</i>). | 3 { J. E. Davey, B.A., Belfast.
Walter Simpson, M.A., Scarf-
skerry, Thurso.
John Younie, M.A., Fochabers. |
| 2 Thomas Hutchison, M.A.,
Glasgow. | |

Second-Class Certificates of Merit.

- | | |
|----------------------------|----------------------------------|
| 6 P. C. Marr, M.A., Leith. | 7 Hugh G. Stark (Arts), Falkirk. |
|----------------------------|----------------------------------|
- A. R. S. KENNEDY, D.D., *Professor.*

FACULTY OF LAW.Including Classes common to the Faculties of
Arts and Law.**PUBLIC LAW.***Prizemen.*

- | | |
|---------------------|---------------------|
| 1 { W. M. Mitchell. | 3 { W. G. M. Dobie. |
| { W. J. Henderson. | |

Honours.

- | | |
|----------------------|-------------------------|
| 5 { R. J. Roche. | 14 J. R. Wishart. |
| { R. G. Hunter. | 15 G. R. Veel. |
| { J. Walker. | 16 H. E. G. Sutherland. |
| 8 Mary L. Prosser. | 17 { R. A. Craig Allan. |
| { J. M. Cooper. | { B. N. V. Deva. |
| 9 { M. G. M'Diarmid. | 19 S. N. Dutt. |
| 11 A. W. Noakes. | 20 N. V. L. Rao. |
| 12 { A. R. Strachan. | |
| { A. Dougal. | |

Essay Prize—W. G. M. Dobie.*Honourable Mention*—W. M. MitchellL. J. GRANT, Bart., LL.D., *Professor.*

CIVIL LAW.**Winter Session.***Prizemen.*

- | | | | | | | | |
|---|-----------------|--|---|--|--|---|------------------|
| 1 | W. G. M. Dobie. | | 2 | { J. C. Grierson.
Robert Robertson. | | 4 | H. L. Armstrong. |
|---|-----------------|--|---|--|--|---|------------------|

Honours.

- | | | | | |
|---|-------------------------------------|--|----|------------------|
| 5 | { R. J. Gibson.
W. J. Henderson. | | 8 | A. R. Strachan. |
| 7 | J. W. Jarvis, M.A. | | 9 | I. S. Chesser. |
| | | | 10 | A. W. H. Noakes. |

The *Forensic Prize* for the best Essay written by a student of the preceding year was divided between E. C. B. Kirsopp and R. S. Lindsay.

Summer Session.*Prizes.*

- | | | | | |
|---|------------------------------|--|---|--------------------------------|
| 1 | William J. Henderson, Troon. | | 3 | Robert Robertson, Dunfermline. |
| 2 | John C. Grierson, Edinburgh. | | | |

Honours.

- | | | | | |
|---|---------------------------------|--|---|---------------------------------------|
| 4 | I. E. de Watteville, Kingussie. | | 6 | Alfred W. H. Noakes, Tunbridge Wells. |
| 5 | James W. Jarvis, M.A., Forfar. | | 7 | Reginald J. Gibson, Edin. |

The *Muirhead Prize* (for the highest distinction in the Winter and Summer Sessions taken together) was awarded to John C. Grierson.

JAMES MACKINTOSH, K.C., LL.D., *Professor.*

CONSTITUTIONAL LAW AND CONSTITUTIONAL HISTORY.

- | | | | |
|---|--|----|--|
| 1 | Wm. M'K. Mitchell, Edinburgh (<i>First Prize</i>). | 7 | { George King Hicks Cochrane
Edinburgh. |
| 2 | John Gould, Edinburgh (<i>Second Prize</i>). | | { Christina Miller Coghill, Caithness. |
| 3 | Jane A. M. Inverarity, Edinburgh (<i>Third Prize</i>). | | { Margaret Jamieson Falconer, Edinburgh. |
| 4 | Reginald James Gibson, Edinburgh. | 10 | { William Robertson Houston, Fife. |
| 5 | Robert Macnaughton Connell, Fife. | | { James Warden Jarvis, Forfarshire. |
| 6 | Alice Helena Williamson, Edinburgh. | | |

J. H. MILLAR, M.A., LL.B., *Professor.*

SCOTS LAW.

Winter Session.

- | | | | |
|---|--|----|--|
| 1 | E. C. B. Kirsopp, West Lothian (Thow Scholar). | 10 | David Rattray, jun., Forfarshire. |
| 2 | John Love McNaughton, M.A., Banffshire. | 11 | John Logie Gaudie, Forfarshire. |
| 3 | Stephen W. Best, Breconshire. | 12 | A. Norman Rogers, Leicestershire. |
| 4 | O. S. Elliott, Argyllshire. | 13 | Alex. Dougal, Mid-Lothian. |
| 5 | A. J. Ogilvie Kemp, Mid-Lothian. | 14 | Frank C. H. Thom, West Lothian. |
| 6 | J. Tudhope Aitken, Roxburghshire. | 15 | John Nelson, East Lothian. |
| 7 | James Hutton, Dumfriesshire. | 16 | Robert Strathern Lindsay, Mid-Lothian. |
| 8 | C. Stuart Matley, Worchestershire. | 17 | William Brown, Dumfriesshire. |
| 9 | Thomas R. Evans, Breconshire. | 18 | Arthur William Baldwin, Orkney. |
| | | 19 | G. A. P. Balfour, B.A. Oxon., Forfarshire. |
| | | 20 | R. C. Smith, Mid-Lothian. |

Prizemen.

Summer Session.

- | | | | |
|---|---|----|--|
| 1 | { Edgar C. B. Kirsopp, Linlithgowshire. | 9 | Frank C. H. Thom, Linlithgowshire. |
| | { John Love McNaughton, Banffshire. | 10 | Arthur William Baldwin, Orkney. |
| 3 | J. Tudhope Aitken, Roxburghshire. | 11 | G. A. P. Balfour, Forfarshire. |
| 4 | John Nelson, Haddingtonshire. | 12 | Robert Strathern Lindsay, Mid-Lothian. |
| 5 | A. J. Ogilvie Kemp, Mid-Lothian. | 13 | John Crozier Shannon, Roxburghshire. |
| 6 | Alexander Dougal, Mid-Lothian. | 14 | Robert Baxter, Fifeshire. |
| 7 | David Rattray, jun., Forfarshire. | 15 | R. A. Craig Allan, Stirlingshire. |
| 8 | John Logie Gaudie, Forfarshire. | 16 | William Gardner, Stirlingshire. |
| | | 17 | { Edwin Brown, Mid-Lothian. |
| | | | { R. C. Smith, Mid-Lothian. |

Prizemen.

Ægrot.—H. L. Armstrong, Roxburghshire.

Essay Prizes.

- | | | | |
|---|--------------------|---|--------------------------------|
| 1 | J. Tudhope Aitken. | 2 | { James Darnley, Selkirkshire. |
| | | | { Frank C. B. Thom. |

JOHN RANKINE, K.C., M.A., LL.D., *Professor.*

CONVEYANCING.*Prizemen.*

- | | |
|---|------------------------------------|
| 1 James S. C. Reid, Haddingtonshire (Thow Scholar). | 5 Charles Mackintosh, Nairnshire. |
| 2 Robert K. Letts, Warwickshire. | 6 C. M. Brown, Mid-Lothian. |
| 3 Thomas M. Cooper, M.A., Mid-Lothian. | 7 Francis E. Balfour, Mid-Lothian. |
| 4 William R. Blair, Clackmannanshire. | 8 Wm. L. Stuart, Mid-Lothian. |

Honours.

- | | | |
|---|------|---------------------------------------|
| 9 J. G. Thom, Linlithgowshire. | 20 { | D. G. Cuthill, Linlithgowshire. |
| 10 John Reid, Renfrewshire. | | William Thomson, jun., Morayshire. |
| 11 John W. More, Stirlingshire. | 22 { | D. Horace Georgeson, Caithness-shire. |
| 12 John A. G. Hunter, Perthshire. | | Edward Robbie, Forfarshire. |
| 13 James Walker, M.A., Wigtownshire. | 24 | A. R. M'Fadyen, Dumbartonshire. |
| 14 John H. Smith, Peeblesshire. | 25 { | James C. Brown, Clackmannanshire. |
| 15 J. E. A. Anderson, Orkney. | | James R. Gibb, Perthshire. |
| 16 Alexander MacGregor, Ross-shire. | 27 { | George B. Smith, Aberdeenshire. |
| 17 Victor S. M. Marshall, Lanarkshire. | | D. M. Wilson, Fifeshire. |
| 18 John Mackintosh, Morayshire. | | |
| 19 Andrew S. Stewart, Clackmannanshire. | | |

JOHN L. MOUNSEY, W.S., *Professor.*

*Summer 1914.***FORENSIC MEDICINE.**

- | | |
|--|------------------------|
| 1 William Graham (<i>Medallist</i>). | 6 John P. Gorman. |
| 2 { James Warden Jarvis. | 7 Charles G. Kennaway. |
| { Alexander Dougall. | 8 John Edwin Kennedy. |
| 3 R. G. Hunter. | 9 { J. G. Thom. |
| 4 H. Leslie Armstrong. | { David J. Glenny. |
| 5 R. J. Roche. | |

HARVEY LITTLEJOHN, M.B., B.Sc., *Professor.*

ENGLISH LAW.*Winter Session.*

- | | |
|--------------------------------|-------------------------------------|
| 1 Narendranath Nandi, Calcutta | 2 Reginald J. Roohe, Isle of Wight. |
| (<i>Medal</i>). | 3 Ian A. Mackenzie, Lochinver. |

Summer Session.

- | | | | |
|---|--|---|-------------------------------|
| 1 | Reginald J. Roehé, Isle of Wight (<i>Medallist</i>). | 2 | Murindra Nath Dutt, Calcutta. |
| | | 3 | Narendranath Nandi, Calcutta. |

Prize for work of Winter and Summer Sessions - Narendranath Nandi
Calcutta.

HECTOR BURN MURDOCH, B.A., LL.B., *Lecturer*.

MERCANTILE LAW.*Prizes.*

- | | | | |
|---|-------------------------|---|--------------------------|
| 1 | W. J. Dobie, Edinburgh. | 2 | Joseph Halliday, Penpont |
|---|-------------------------|---|--------------------------|

Honours.

- | | | | |
|---|---|----|--|
| 3 | K. S. Rao, India. | 10 | H. R. Marshile, Edinburgh. |
| 4 | James Anderson, Edinburgh. | 11 | N. B. Watson, Berwickshire. |
| 5 | R. N. Robertson, Dumfriesshire. | 12 | { J. J. Allan, Hamilton.
G. R. Veel, Birmingham. |
| 6 | { D. J. Glenney, Forfarshire.
R. F. Kilpatrick, Edinburgh. | 14 | { W. D. Jamie, Fifeshire.
F. A. Kissik, South Africa. |
| 8 | W. F. Dickson, Auldgrith. | 16 | J. C. Cessford, Edinburgh. |
| 9 | C. W. W. Smillie, Edinburgh. | 17 | O. H. Shennan, Edinburgh. |

HENRY AITKEN, K.C., *Lecturer*.

EVIDENCE AND PROCEDURE.*Prizes.*

- | | | | |
|---|----------------------------------|---|---|
| 1 | Charles Mackintosh, B.A., Nairn. | 2 | { John G. Thom, M.A., Linlithgow.
W. R. Walker, LL.B., Castle-Douglas. |
|---|----------------------------------|---|---|

Honours.

- | | | | |
|---|--|---|---------------------------------------|
| 4 | { Frank C. H. Thom, Linlithgow.
John Mackintosh, M.A., Hopeman. | 6 | D. Horace Georgeson, M.A., Caithness. |
|---|--|---|---------------------------------------|

W. J. LEWIS, B.L., *Lecturer*.

Summer 1914.**INTERNATIONAL PRIVATE LAW.**

- | | | | |
|---|---|---|---|
| 1 | E. C. B. Kirsopp, Scotland
(<i>Prize</i>). | 4 | Stephen W. Best, Wales. |
| 2 | Charles Stuart Matley, Eng-
land. | 5 | Sachindra Nath Dutt, India. |
| 3 | A. N. Rogers, England. | 6 | { George B. Smith, Scotland.
Thomas R. Evans, Wales. |

CHARLES R. A. HOWDEN, M.A., *Lecturer*.

Summer 1914.**ADMINISTRATIVE LAW.**

Prizeman—John L. M'Naughton, Buckie.

P. F. WOOD, K.C., B.C.L., LL.D., *Lecturer*.

FACULTY OF MEDICINE.**CHEMISTRY.***First-Class Certificates.*

- | | | | | |
|---|-------------------------------------|----------------------------|----|--|
| 1 | Robert Wallace. | } <i>Medal-
lists.</i> | { | Edward Chonglop. |
| 2 | Harry R. Goldberg. | | | A. Klenerman. |
| 3 | W. B. Reid. | | | 9 { Alexander MacPherson.
D. W. Sinclair. |
| 4 | { P. C. Datta.
E. H. Goodfellow. | { | 13 | Alexander V. Stewart. |
| | Henry J. Parish. | | 14 | Robert B. MacGregor. |
| 7 | K. B. Williamson. | | 15 | L. C. D. Hermitte. |
| 8 | Laurence J. Howie. | | | |

Second-Class Certificates (in alphabetical order).

- | | |
|----------------------|--------------------|
| E. H. Ablett. | John Campbell. |
| Thomas F. Andrew. | Eric E. Candlish. |
| Vivian C. Beckerleg. | George M. Clark. |
| Robert F. Boltman. | James Davidson. |
| D. R. Bomford. | A. A. Denham. |
| S. Boodoosingh. | Edward Dickson. |
| Robert M. Burnie. | William John Dunn. |
| Robert E. Burns. | Kevin Ebsworth. |
| K. F. Caird. | Duncan Ferguson. |

Gordon B. Flint.
 Gerald S. Freeman.
 Matthew J. Gibson.
 G. S. Gill.
 George Herbert Gunn.
 Leslie R. S. Gunson.
 S. D. Gupta.
 W. A. Hennessy.
 William G. Hughes.
 Jacob Laltoo.
 Donald C. Lamont.
 John Learmont.
 J. K. C. Liddell.
 Robert K. S. Lim.
 Max Lipschitz.
 Douglas I. O. Macaulay.
 James F. M'Conchie.
 Malcolm Macdonald.
 H. B. Mackenzie.
 J. M. Macpherson.
 R. C. Bruce Macrae.
 A. W. Mackie.
 James F. Mackie.

J. Stewart Mann.
 Moray Melvin.
 David John Micah.
 Henry Oliver.
 David Oswald.
 Andrew Peffers.
 Alexander M. W. Rae.
 W. Nelson Rout.
 Max Sash.
 Charles Simpson.
 Frank W. Simson.
 Thomas Skene.
 G. M. Shaw Smith.
 S. Stein.
 Richard J. O. Taylor.
 D. Farquhar-Thompson.
 Edmund J. Thomson.
 P. H. J. Turton.
 J. J. Wessels.
 J. Leslie Wilson.
 J. Thomas Wilson.
 M. R. Zada.

Robert Wilson Memorial Prize—Robert Wallace.

PRACTICAL CHEMISTRY.

First-Class Certificates.

- | | |
|--------------------------|----------------------------|
| 1 Robert Wallace. | 16 Alexander MacPherson. |
| 2 L. C. D. Hermitte. | 17 { E. H. Ablett. |
| 3 Henry J. Parish. | 17 { Thomas F. Andrew. |
| 4 { E. H. Goodfellow. | 19 Matthew J. Gibson. |
| 4 { W. B. Reid. | 20 James Davidson. |
| 4 { K. B. Williamson. | 21 { J. K. C. Liddell. |
| 7 Harry R. Goldberg. | 21 { H. B. Mackenzie. |
| 8 Laurence J. Howie. | 21 { W. Nelson Rout. |
| 9 Robert B. MacGregor. | 21 { Robert MacI. Gardner. |
| 10 Alexander V. Stewart. | 24 { G. S. Gill. |
| 11 { George Buchanan. | 24 { C. Stuart Nimmo. |
| 11 { Gordon B. Flint. | 24 { S. Stein. |
| 11 { P. H. J. Turton. | 28 { P. C. Datta. |
| 14 { Edward Dickson. | 28 { D. W. Sinclair. |
| 14 { Thomas Skene. | |

Second-Class Certificates (in alphabetical order).

Archibald Ainslie.	D. R. Bomford.
George J. Alexander.	Robert M. Burnie.
N. M. Anderson.	Robert E. Burns.
Elias Arosemena.	K. F. Caird.
Roy F. Balmain.	Arthur Campbell.
Vivian C. Beckerleg.	John Campbell.
Cecil Blake.	Eric E. Candlish.

Edward A. Carmichael.
 Edward Chonglop.
 George M. Clark.
 E. H. Connell.
 D. A. Cunningham.
 H. M. Deans.
 A. A. Denham.
 Arthur E. Dowden.
 Alexander M. Duff.
 William John Dunn.
 Kevin Ebsworth.
 Walter Yardley Eccott.
 C. G. N. Edwards.
 Duncan Fergusson.
 Gerald S. Freeman.
 H. A. Girby.
 Edgar P. Gordon.
 C. L. Green.
 George Herbert Gunn.
 Leslie R. S. Gunson.
 S. D. Gupta.
 Basil T. Halliwell.
 A. H. M. Henderson.
 William G. Hughes.
 G. Arnold Hunter.
 Jacob Laltoo.
 Donald C. Lamont.
 John Learmont.
 Han Hoe Lim.
 Robert K. S. Lim.
 Max Lipschitz.
 William M. M'Allister.
 James F. M'Conchie.
 K. M. M'Cracken.

Malcolm Macdonald.
 F. P. MacGillivray.
 William M. MacPhail.
 J. M. Macpherson.
 R. C. Bruce Macrae.
 J. Stewart Mann.
 Eyde R. Manning.
 Horace O. Marks.
 David John Micah.
 J. C. Moolman.
 T. Burns Moyes.
 A. D. Odling.
 Henry Oliver.
 Andrew Peffers.
 Alexander M. W. Rae.
 D. Gordon Robertson.
 William B. Ross.
 Max Sash.
 Charles E. Scott.
 T. A. Sellar.
 Charles Simpson.
 Frank W. Simson.
 G. M. Shaw Smith.
 T. R. C. Spence.
 J. A. H. Sykes.
 Richard J. O. Taylor.
 D. Farquhar-Thompson.
 Alex. A. Thomson.
 Edmund J. Thomson.
 David T. Watt.
 J. J. Wessels.
 J. Leslie Wilson.
 J. Thomas Wilson.

JAMES WALKER, D.Sc., Ph.D., *Professor.*

PHYSICS.

First-Class Honours.

- | | | | | | | |
|---|---|--|-----------------|----|---|---|
| 1 | { | John Campbell, Killin. | Medal-
lists | 10 | { | D. J. Micah, Montgomeryshire,
Wales. |
| | { | H. R. Goldberg, South
Africa. | | 11 | { | D. W. Sinclair, Annan. |
| 3 | { | H. J. Parish, Aberfeldy. | | { | { | R. J. O. Taylor, West Calder. |
| 4 | { | R. B. MacGregor, Dunbar. | | { | { | P. H. J. Turton, Heanor,
Derbyshire. |
| | { | R. Wallace, America. | | 12 | { | K. B. Williamson, South
Shields. |
| | { | E. H. Goodfellow Auckland,
New Zealand. | | 15 | { | L. J. Howie, Edinburgh. |
| 6 | { | W. B. Reid, Victoria, Australia. | | | | |
| | { | T. Skene, Pumpherston, Mid-
Calder. | | | | |
| | { | J. L. Wilson, Markinch, Fife. | | | | |

Second-Class Honours.

- | | | | |
|----|-----------------------------------|----|----------------------------------|
| 16 | Malcolm Macdonald, Edinburgh. | 35 | { A. V. Stewart, Newton-Stewart. |
| 17 | { D. Fergusson, Balquhiddy. | 35 | { A. M. Duff, Edinburgh. |
| 17 | { W. B. Ross, Perth. | 37 | { A. A. Denham, Cambridge. |
| 19 | { Andrew Peffers, Forfar. | 37 | { G. Buchanan, Scotland. |
| 19 | { G. A. Hunter, Edinburgh. | 37 | { H. A. Girby, Alexandria, |
| 21 | { D. C. Lamont, Inverness. | 38 | { Egypt. |
| 21 | { C. Simpson, Inverness. | 38 | { T. J. Johnston, Kilrea, Co. |
| 23 | { M. J. Gibson, Ireland. | 38 | { Derry. |
| 24 | { E. Chonglop, Trinidad, B.W.I. | 38 | { J. T. Wilson, Tundergarth. |
| 24 | { A. Klennerman, South Africa. | 42 | { A. Ainslie, Tasmania. |
| 26 | { G. S. Freeman, Aberdeenshire. | 42 | { R. M. Burnie, Hutton. |
| 26 | { Alex. Macpherson, Edinburgh. | 42 | { A. A. Thomson, Aberdeen. |
| 28 | { H. Oliver, Australia. | 42 | { F. J. C. Moffat, Edinburgh. |
| 28 | { G. M. Clark, Edinburgh. | 42 | { A. H. M. Henderson, |
| 28 | { R. M'I. Gardner, Glasgow. | 42 | { Galashiels. |
| 30 | { J. L. McConchie, Belfast. | 45 | { Moray Melvin, Fraserburgh. |
| 30 | { Jacob Laltoo, Trinidad. | 45 | { M. Sash, Johannesburg, S.A. |
| 33 | { R. F. Burns, W. Australia. | 45 | { C. E. Scott, Selkirk. |
| 33 | { J. K. C. Liddell, Errol, Perth- | 45 | { J. J. Wessels, South Africa. |
| | shire. | | |

Summer 1914.*First-Class Honours.*

- 1 H. S. Plowman, Natal.

Second-Class Honours.

- 2 W. G. Robson, Edinburgh. | 3 W. M. Cooper, Edinburgh.

C. G. KNOTT, D.Sc., *Lecturer.***Summer 1914.****ELEMENTARY BOTANY.***First-Class Honours.*

- | | | | |
|---|---------------------------|---|------------------------------|
| 1 | { Eric Hector Goodfellow, | 5 | Wm. Bremner Reid, Australia. |
| | { Auckland, N.Z. | 6 | David Williamson Sinclair, |
| | { James M'Nabb, Glasgow. | | { Annan. |
| | { Thomas Skene, Edin. | 7 | Duncan Fergusson, Balqu- |
| 4 | { Duncan Ferguson Yuille, | | { hiddy. |
| | { Scotland. | 8 | Robert MacNair, Alnwick. |

Second-Class Honours.

- | | | | |
|----|--|----|---|
| 9 | { Andrew Peffers, Forfar.
Alexander Anderson Thomson,
Aberdeen. | | { Ernest Henry Connell, Lon-
don. |
| | | | { Edgar Fitzgerald Gordon,
Trinidad. |
| | { Raymond Leslie Langley,
Nottingham. | 32 | { Alexander Macpherson, Scot-
land. |
| 11 | { James Ireland M'Caa, Girvan.
Henry James Parish, Aber-
feldy. | | { Frank William Simson,
Bathurst, N.S.W. |
| | { Robert Kho Seng Lim, Singa-
pore. | | { Edye Rolleston Manning,
Sydney, N.S.W. |
| | { Robert Barr Macgregor,
Dunbar. | 36 | { David J. T. Oswald, Anstruther. |
| 14 | { Moray Melvin, Fraserburgh.
Kenneth MacLennan Purves,
Edinburgh. | | { Gurdial Singh Gill, India. |
| | | | { George Alexander Macadie,
Thurso. |
| 18 | { Alexander Montgomery Wilson
Rae, Arbroath. | | { George Stibbard Mackay,
Sutherlandshire. |
| | | 38 | { Edward Oliver Ruddock,
Brisbane. |
| | { Herbert Booth, Crewe.
John Hamilton Crawford,
Hopeman, Morayshire. | | { Nathaniel William Stewart,
Newton-Stewart. |
| | { James Glover, Uyeasound,
Shetland. | | { Ivan Curror Christie Barclay,
Scotland. |
| 19 | { Donald Colin Lamont, Inver-
ness. | | { George Herbert Gunn, Reay,
Caithness. |
| | { Malcolm Macdonald, Edin.
Charles Simpson, Inverness. | 43 | { John Cecil Macgown, Millport. |
| | { Kenneth Bamford Williamson,
South Shields. | | { Richard James Ogilvie Taylor,
Letham, Forfarshire. |
| | | | { Donald Hugh Cameron,
Thurso. |
| | { Ronald M'Donald Cairns,
Cockermouth. | 47 | { Joseph Edward Fletcher,
England. |
| | { James Davidson, Dumfries. | | { Alexander Vivian Stewart,
Newton-Stewart. |
| | { Cosmo Grant Niven Edwards,
Calcutta. | | { William Howard Davies,
Darlington. |
| 26 | { Gerald Stewart Freeman,
Dundee. | | { Richard James Wallace
Ritchie, Edinburgh. |
| | { Laurence James Howie, Amoy,
China. | 50 | { Alexander Scott Russell, Sel-
kirk. |
| | { Robert Cunningham Bruce
Macrae, New Zealand. | | { John Veitch, Duns. |

FOR A HERBARIUM OF FLOWERING PLANTS AND FERNS
COLLECTED DURING THE YEAR 1913-14.

Robert John Pealling, Dalbeattie (*Gold Medal*).

FOR A HERBARIUM OF PLANTS COLLECTED DURING
THE SUMMER TERM.

Alexander Macpherson, Scotland (*Prize*).

First-Class Honours.

Thomas Skene, Edinburgh.

Second-Class Honours.

James Hunter Cameron, London. | James Davidson, Dumfries.

PRACTICAL ELEMENTARY BOTANY.**Division A.***First-Class Honours.*

- | | | | | |
|---|-------------------------|---------------------|---|-------------------------|
| 1 | William Bremner Reid, | } <i>Medallists</i> | 3 | Joseph Edward Fletcher, |
| | Australia. | | | England. |
| 2 | Duncan Ferguson Yuille, | | 4 | James M'Nabb, Glasgow. |
| | Scotland. | | | |

Second-Class Honours.

- | | | | | | |
|---|---|-----------------------------|----|---|-------------------------------|
| 5 | { | Alexander Macpherson, Scot- | 10 | { | Alexander Montgomery Wil- |
| | | land. | | | son Rae, Arbroath. |
| | | Laurence James Howie, Amoy, | | | Alexander Scott Russell, Sel- |
| | | China. | | | kirk. |
| | | George Alexander Macadie, | | | Kenneth Bamford Williamson, |
| | | Thurso. | | | South Shields. |
| 8 | { | Ronald M'Donald Cairns, | | | |
| | | Cockermouth. | | | |
| | | Robert Lightbody Galloway, | | | |
| | | Edinburgh. | | | |

Division B.*First-Class Honours.*

- | | | | | |
|---|-------------------------|---------------------|---|----------------------------|
| 1 | Robert Kho Seng Lim, | } <i>Medallists</i> | 3 | { Robert MacNair, Alnwick. |
| | Singapore. | | | { Thomas Skene, Edinburgh. |
| 2 | Eric Hector Goodfellow, | | 5 | Raymond Leslie Langley, |
| | Auckland, N.Z. | | | Nottingham. |

Second-Class Honours.

- | | | | | | | |
|---|---|-------------------------------|----|---|------------------------|------------------------|
| 6 | { | Kenneth Stocks Brown, Edin. | 10 | { | Duncan Fergusson, Bal- | |
| | | Ernest Henry Connell, London. | | | quhidder, | |
| | | James Davidson, Dumfries. | | | 11 | Edward Oliver Ruddock, |
| | | James Ireland M'Caa, Girvan. | | | Brisbane. | |

FOR A SERIES OF DRAWINGS ILLUSTRATING WORK DONE
DURING THE TERM.

Robert Kho Seng Lim, Singapore (*Prize*).

First-Class Honours (arranged alphabetically).

Archibald Ainslie, Moffat.	Alexander Macpherson, Scotland.
Robert M'Donald Cairns, Cocker- mouth.	Bertram Charles Joseph St Clair Miller, Rangoon.
W. Yardley Eccott, Edinburgh.	Charles Simpson, Inverness.
George Stibbard Mackay, Suther- landshire.	Duncan Ferguson Yuille, Scotland.

Second-Class Honours (arranged alphabetically).

Duncan Ferguson, Balquhidder.	John Richard Larson, Tabriz, Russia.
Robert M'Innes Gardner, Glasgow.	William Beattie Ross, Perth.

FOR A SERIES OF MICROSCOPICAL PREPARATIONS ILLUSTRATING
WORK DONE DURING THE TERM.

Second-Class Honours.

Alexander Macpherson, Scotland.	Cornelis Godfried Lodewyk van Dyk, Pretoria, Transvaal.
Wm. Bremner Reid, Australia.	
Alexander Scott Russell, Selkirk.	

ISAAC BAYLEY BALFOUR, M.D., D.Sc., *Professor.*

*Summer 1914.***ELEMENTARY ZOOLOGY.***First-Class Honours.*

1 E. H. Goodfellow.	} <i>Medallists</i>	10 {	F. J. Deane.
2 T. Skene.			R. B. MacGregor.
3 { J. I. M'Caa.			A. M. Marr.
{ H. M. Steven.			A. Peffers.
5 { H. J. Parish.			E. H. Ponder.
{ A. V. Stewart.			W. B. Reid.
{ C. Simpson.			W. Gordon Robson.
8 K. M. Purves.			R. J. O. Taylor.
9 M. Melvin.			D. F. Yuille.

Second-Class Honours.

19 { J. H. Crawford.	}	30 { C. Blake.
{ J. E. Fletcher.		{ F. W. Simson.
{ H. Hastings.		{ J. Veitch.
{ J. Laltoo.		33 { M. Macdonald.
23 { E. Chonglop.		{ E. Robinson.
{ R. C. B. Macrae.		35 { H. M. Horrox.
{ E. H. Connell.		{ C. W. Patterson.
25 { R. J. W. Ritchie.		{ I. C. C. Barclay.
{ A. M. W. Rae.		37 { D. Fergusson.
{ I. H. L. Shapiro.		{ S. D. Gupta.
29 J. M'Nabb.		{ T. W. Lowden.
		{ R. L. Langley.

42	{	W. A. Forsyth.	68	{	K. S. Brown.
		E. Gordon.			J. J. R. Binnie.
		J. L. Lloyd-Jones.			J. A. L. Cook.
		D. W. Sinclair.			Wm. Clark.
47	{	A. R. Walker.	75	{	P. K. De.
		J. Davidson.			G. S. Gill.
		A. H. M. Moir.			L. J. Howie.
		R. M'D. Cairns.			G. S. Freeman.
49	{	A. E. Dowden.	78	{	A. H. M. Henderson.
		R. K. S. Lim.			E. R. Manning.
		K. B. Williamson.			A. Ainslie.
		A. Campbell.			D. C. Lamont.
53	{	R. M. van der Merwe.	83	{	J. Learmont (M.A.).
		R. M. Burnie.			H. O. Marks.
		G. J. Hughes.			D. C. Wilson.
		W. M'Alister (M.A.).			J. H. Cameron.
55	{	Chas. Wood.	88	{	P. F. Gordon.
		A. Chen-yu Chou.			D. P. M'Iver.
		C. G. L. van Dyke.			F. J. C. Moffat.
		E. R. O'Dowd.			S. S. Silva.
60	{	M. S. Peralta.	92	{	O. Gray.
		J. D. Russell.			H. Lipetz.
		A. M'Lean.			M. Lipschitz.
		M. L. Sherif.			A. MacPherson.
64	{	A. A. Thomson.		{	S. Boodoosingh.
		H. S. Percival.			K. S. Dick.
					M. J. Gibson.
					F. A. Patrick.
					D. Rankin.
					M. Sash.

PRACTICAL ZOOLOGY.

Section A.

First-Class Honours.

1	{	E. H. Goodfellow.	9	{	W. M'Alister (M.A.).
		J. I. M'Caa.			T. W. Lowden.
		R. K. S. Lim.			J. W. M'Vicker.
		E. Chonglop.			K. S. Dick.
5	{	R. J. O. Taylor.		{	E. Robinson.
		E. G. R. Grant.			T. Skene.
7		Fred. Reynolds.			D. Fergusson.
8		Jas. Davidson.			W. J. Dunn.

Medallists

Second-Class Honours.

17	{ K. M. Purves. R. M. van der Merwe. Herbert Booth. F. J. Deane.		{ C. C. Winchester. H. S. Percival. S. Solomon Silva. H. Don J. Lazarus.
21	{ C. G. N. Edwards. R. Price Cole. W. Anderson. G. S. Freeman. R. J. W. Ritchie. O. Gray.	27	{ E. H. Connell. A. Peffers. E. S. Velikovsky. P. K. De. S. D. Gupta. D. C. Wilson.
		37	{ D. P. M'Iver. A. F. Abbassi. Fritz Herpell. R. M. Gardner. E. M. Fraser. R. L. Langley.
		43	{ A. H. M. Henderson.

Section B.*First-Class.*

1	{ Cecil Blake. } <i>Medallists</i>		{ Ronald M'D. Cairns. A. W. G. Cumming.
	{ W. B. Reid. }	7	{ R. C. B. Macrae. H. B. Pierce. F. W. Simson.
3	{ Wm. A. Forsyth. John Veitch. A. M. Wilson Rae. Charles Simpson.		

Second-Class.

12	{ Robert L. Galloway. M. J. Gibson. L. J. Howie. Donald C. Lamont. Alex. H. M. Moir. Alex. M. Marr.		{ J. Hamilton Crawford. C. G. L. van Dyke. Ian G. M. Garson. Peter Ferguson Gordon. G. C. I. Hervey. Alex. MacPherson. H. O. Marks. A. A. Thomson. R. R. Walker. K. B. Williamson.
		28	{ P. C. Uiys.
		29	{ Wm. M. MacPhail.

J. C. EWART, M.D., *Professor.*

ANATOMY.*First-Class Honours.*

- | | | | |
|---|---|------------|--|
| <p>1 K. B. Williamson, South Shields.</p> <p>2 W. D. Mackinnon, Torrance.</p> <p>3 E. H. Goodfellow, New Zealand.</p> <p>4 { J. G. Allan, W. Lothian.
A. V. Stewart, Newton-Stewart.
P. C. Datta, India.</p> <p>6 { M. Macdonald, Edinburgh.
A. van der Poel, South Africa.</p> <p>9 { H. R. Goldberg, South Africa.
H. W. Y. Taylor, Morayshire.</p> <p>11 { H. J. Parish, Aberfeldy.
N. W. Stewart, Newton-Stewart.
R. J. O. Taylor, Forfarshire.</p> | } | Medallists | <p>14 { J. D. Mill, Anstruther.
P. H. J. Turton, Derby.</p> <p>16 { E. H. Ablett, Cumberland.
A. M. W. Rae, Arbroath.</p> <p>18 { W. B. Reid, New Zealand.
Alex. S. Russell, Selkirk.
Geo. M. Clark, Edinburgh.
A. Y. Cochrane, Bo'ness.
R. N. Johnson, South Africa.</p> <p>20 { R. B. MacGregor, Scotland.
Alex. Macpherson, Edinburgh.
E. R. Manning, Sydney.
D. J. Micah, Wales.
G. M. S. Smith, Muirkirk.</p> |
|---|---|------------|--|

Second-Class Honours.

- | | | | |
|--|---|------------|--|
| <p>28 { J. C. Bedwell, Colchester.
C. G. Booker, South Africa.
K. F. Caird, Edinburgh.
John Campbell, Killin.
E. A. Carmichael, Edinburgh.
Duncan Ferguson, Scotland.
Andrew Peffers, Forfar.
Charles Simpson, Inverness.
Thomas Skene, Edinburgh.
E. J. Thomson, Lanarkshire.
Archibald Ainslie, Tasmania.
D. H. Cameron, Glasgow.
E. S. Candlish, Bury.</p> <p>38 { W. J. Dunn, Dumfries.
Dennis P. D. Gay, India.
Jacob Laltoo, Trinidad.
K. N. Rao, India.
W. N. Rout, New Zealand.</p> <p>46 { V. C. Beckerleg, South Africa.
J. L. Lamont, Treherne.
R. K. S. Lim, Singapore.
J. L. Wilson, Fife.</p> <p>50 { L. R. S. Gunson, Whitehaven.
L. J. Howie, Edinburgh.</p> | } | Medallists | <p>{ G. J. Alexander, Edinburgh.
Cecil Blake, South Africa.
J. H. Kerr, Grantown-on-Spey.</p> <p>52 { D. C. Lamont, Inverness.
W. M'Alister, Campbeltown.
W. B. Ross, Perth.
Max Sash, South Africa.
J. T. Wilson, Tundergarth.</p> <p>60 { H. B. Mackenzie, New Zealand.
A. C. Y. Chow, China.
E. H. Connell, London.
Jas. Davidson, Dumfries.
L. C. D. Hermitte, Seychelles Islands.</p> <p>51 { T. K. Lwin, Burma.
R. C. B. Macrae, New Zealand.
F. J. C. Moffat, Edinburgh.
R. Bisset Smith, Ashton-under-Lyne.</p> <p>70 { T. R. O. Spence, Edinburgh.
S. Boodoo, Singh, Trinidad.
George Buchanan, Scotland.
R. E. Burns, Australia.
R. M. Gardner, Glasgow.
W. A. Hennessy, New Zealand.
J. K. Liddell, Errol.
J. F. McConchie, Scotland.</p> |
|--|---|------------|--|

77	R. M. Burnie, Hutton and Corrie.	112	Jas. T. Johnston, Co. Derry.
	C. G. N. Edwards, Calcutta.		N. W. Johnston, Langholm.
	D. I. O. Macaulay, Yorkshire.		Max Lipschitz, Memel.
	D. P. M'Iver, Islay.	115	Wm. Bald, Scotland.
	J. M. Macpherson, Kirkcaldy.		E. F. Gordon, Trinidad.
	Henry Oliver, Australia.		Hugh S. Percival, Edinburgh.
	James Reid, Shotts.	119	A. A. Thomson, Aberdeen.
	Frank W. Simson, New South Wales.		I. C. C. Barclay, Scotland.
	D. W. Sinclair, Annan.		G. H. Gunn, Caithness.
	Eric B. Brown, Preston.		W. G. Hughes, Wales.
86	P. B. Eaton, Canada.		D. M. Morison, India.
	A. S. Garewal, India.		D. S. H. Walker, Scotland.
	M. J. Gibson, Ireland.	124	G. M. Johnson, Newfoundland.
	G. S. Gill, India.		J. E. B. Miller, Londonderry.
	A. H. M. Henderson, Edin.		H. B. Pierce, Langholm.
	J. W. M'Vicker, Ireland.	129	David T. Watt, Aberdeen.
	Robert Wallace, Belfast.		J. J. Wessels, S. Africa.
	Edward Chonglop, Trinidad.		D. R. Bomford, Evesham.
	A. A. Denham, England.		Arthur Campbell, India.
	Edward Dickson, Constantinople.		George S. Mackay, Scotland.
94	G. B. Flint, Australia.		Kenneth Mitchell, Edzell.
	G. S. Freeman, Dundee.		J. D. Russell, Arbroath.
	Laurence Laurenson, Lerwick.	134	N. M. Anderson, Rawalpindi.
	W. M. M'Phail, Argyllshire.		R. P. Cole, Morayshire.
	W. J. Manson, Brooklyn, U.S.A.		H. M. Deans, Bournemouth.
	David J. T. Oswald, Anstruther.		Oliver Gray, Edinburgh.
	W. Anderson, Jedburgh.		W. A. Gray, Edinburgh.
103	A. M. Duff, Edinburgh.		Charles E. Scott, Selkirk.
	G. A. Hunter, Edinburgh.	140	Han Hoe Lim, Singapore.
	John Learmont, Scotland.		G. A. Sinclair, Edinburgh.
	J. C. M'Cartney, Ireland.	142	S. D. Gupta, India.
	J. S. Mann, Oban.		B. T. Halliwell, Winchcombe.
	Moray Melvin, Fraserburgh.	144	F. G. Harman Brown, Coventry.
	T. B. Moyes, Calcutta.		W. H. Critien, Malta.
	J. W. R. Sutherland, Edin.		W. S. Valentine, Liverpool.

SENIOR PRACTICAL ANATOMY.

Autumn Term.

SECTION I.

First-Class Honours.

- | | | |
|---|----------------------------|---------------|
| 1 | J. S. Macbeth, Pitlochry. | } Medallists. |
| 2 | P. Martin Brodie, Selkirk. | |

Second-Class Honours.

- | | | | |
|---|----------------------------------|----|------------------------------------|
| 3 | Duncan Cook, New Zealand. | 9 | { H. N. Daniel, Barrow-in-Furness. |
| 4 | J. A. Hadfield, Loyalty Islands. | | { E. O. A. Singer, Austria. |
| 5 | W. C. Craig, Lockerbie. | | { C. G. Terrell, Reading. |
| 6 | T. E. Hastings, Londonderry. | 12 | { R. L. Stewart, Edinburgh. |
| 7 | { R. A. Nathaniel, Trinidad. | | { Lindsay Walker, Mid-Calder. |
| | { D. W. Warren, Edinburgh. | | |
| | | 14 | J. W. A. Hunter, Derby. |

SECTION II.

First-Class Honours.

- | | | | | |
|---|--------------------------------|------------|---|---------------------------|
| 1 | { J. L. Laidlaw, Kelso. | Medallists | 3 | Jacob Wolfson, S. Africa. |
| | { Robert Walker, W. Australia. | | | |

Second-Class Honours.

- | | | | |
|----|---------------------------------|----|----------------------------------|
| 4 | J. S. Bow, Larbert. | 12 | { J. W. C. Fairweather, Maryton. |
| 5 | { A. O. Ross, Perthshire. | | { R. D. Osler, S. Africa. |
| | { D. H. Williamson, Fife. | | |
| 7 | { Alfred Badenoch, Dunfermline. | 14 | G. H. Middleton, Canada. |
| | { Frank Chilton, New Zealand. | 15 | Andrew Robertson, Edinburgh. |
| | { R. H. Rose-Innes, S. Africa. | 16 | { Joseph Schneider, S. Africa. |
| 10 | { G. W. Grant, Canada. | | { J. A. Stirling, Sussex. |
| | { D. H. Paterson, Canada. | | |

JUNIOR PRACTICAL ANATOMY.

A—IN UNIVERSITY BUILDINGS.

Second Year Students.

First-Class Honours.

- | | | | | |
|----|---------------------------------------|------------|---------------------------------|--------------------------------|
| 1 | Robert Walker, W. Australia | Medallists | 13 | R. L. Stewart, Edinburgh. |
| | (not competing for medal). | | | { R. F. Cripps, India. |
| 2 | A. van der Poel, S. Africa. | | | { F. B. Sanderson, Edinburgh. |
| 3 | H. S. Lucraft, W. Australia. | Medallists | 14 | { S. L. Smith, Dumfries. |
| | { L. G. Allan, W. Australia. | | | { J. H. Sypkens, S. Africa. |
| 4 | { J. A. Hadfield, Loyalty Islands. | | 18 | A. C. C. Craig, Lockerbie. |
| | { A. Y. Cochrane, Bo'ness. | 19 | R. D. Osler, S. Africa. | |
| 6 | { W. A. Weatherhead, Edin. | Medallists | 20 | { T. E. Hastings, Londonderry. |
| | { J. S. Bow, Larbert. | | | { C. G. Terrell, Reading. |
| 8 | { Wm. Everett, Canada. | | | { R. E. Batson, Barbados. |
| | { Robert Mailer, Stirling. | 22 | { G. G. Campbell, S. Africa. | |
| | { J. L. Laidlaw, Kelso. | | { J. R. de Villiers, S. Africa. | |
| 11 | { G. J. Maclean, British West Indies. | Medallists | 25 | George Balsillie, Edinburgh. |
| | | | 26 | { James Aitken, Liverpool. |
| | | | { D. A. Knight, Barbados. | |
| | | | 28 | J. O. Pender Smith, Caithness. |

- | | | | |
|----|---|----|---|
| 29 | { J. C. Bedwell, Colchester.
Frank Chilton, New Zealand.
W. E. Coutts, Chile.
Alex. Joe, Brechin.
Alex. Macrae, Dornoch.
A. S. Paranjpe, India.
E. F. Griffin, S. Africa. | 36 | { J. G. Allan, W. Lothian.
Robert MacGarroll, Inverness. |
| | | 38 | A. H. Ablett, Cumberland. |
| | | 39 | A. M. Simson, Edinburgh. |
| | | 40 | { J. P. Leckie, Cupar.
L. C. Rudd, S. Africa. |
| 35 | | 42 | Frank X. Mayadas, India. |

Second-Class Honours.

- | | | | |
|----|--|----|---|
| 43 | { Ba Kin, Burma.
J. B. C. Madge, India. | 51 | E. B. Brown, Preston. |
| | | 52 | { Akniola Maja, West Africa.
James Sharp, Edinburgh. |
| 45 | { Alfred Badenoch, Dunfermline.
J. A. Stirling, Sussex. | 54 | Ba Than, Burma. |
| 47 | J. F. Stewart, Aberdeenshire. | 55 | J. H. Smellie, Carnwath. |
| 48 | B. T. Chain, Burma. | 56 | C. J. van der Merwe, S. Africa. |
| 49 | James Thompson, Penrhyn. | 57 | John Robinson, Cumberland. |
| 50 | A. R. Matheson, Edinburgh. | | |

First Year Students.*First-Class Honours.*

- | | | | |
|----|---|-----------------|---|
| 1 | A. S. Russell, Selkirk. | Medal-
lists | { John Campbell, Killin.
P. C. Datta, India.
Denis Gay, India.
Andrew Peffers, Forfar.
W. B. Reid, New Zealand.
G. H. Gunn, Caithness.
D. C. Lamont, Inverness. |
| 2 | A. M. W. Rae, Arbroath. | | |
| 3 | R. K. S. Lim, Singapore. | | |
| 4 | W. D. Mackinnon, Torrance. | | |
| 5 | { H. R. Goldberg, South Africa.
R. N. Johnson, South Africa.
H. W. V. Taylor, Morayshire. | 31 | { N. W. Stewart, Newton-Stewart.
Stewart.
J. L. Wilson, Fifeshire. |
| 8 | { V. C. Beckerleg, Natal.
G. C. I. Hervey, Scotland. | | |
| 10 | { Duncan Fergusson, Scotland.
G. M. Shaw, Smith, Muirkirk.
A. V. Stewart, Newton-Stewart. | 35 | { Han Hoe Lim, Singapore.
T. K. Lwin, Burma.
James M'Nabb, Glasgow.
Charles Simpson, Inverness. |
| 13 | { Edward Chonglop, Trinidad.
J. D. Mill, Anstruther. | | |
| 15 | { Moray Melvin, Fraserburgh.
K. B. Williamson, South Shields. | 39 | { J. E. B. Miller, Londonderry.
D. P. M'Iver, Islay.
D. W. Sinclair, Annan. |
| 17 | { H. B. Mackenzie, New Zealand.
R. C. Bruce Macrae, New Zealand. | | |
| 19 | { John Learmont, Scotland.
R. E. Burns, Australia. | 43 | { W. J. Dunn, Dumfries.
Kevin Ebsworth, Australia.
G. B. Flint, Australia.
J. M. M'Pherson, Kirkcaldy. |
| 20 | { K. F. Caird, Edinburgh.
James Davidson, Dumfries. | | |
| | { R. M. Gardiner, Glasgow.
Henry Parish, Aberfeldy. | | |
| 24 | { R. J. O. Taylor, Forfarshire. | | |
| | | | { James Reid, Shotts.
M. R. Zada, Egypt. |

- 49 { M. J. Gibson, Tullyweary.
W. A. Hennessey, New Zealand.
L. C. D. Hermitte, Seychelles Islands.
- 56 { J. W. M'Vicker, Ireland.
D. J. Oswald, Anstruther.
T. R. C. Spence, Edinburgh.
J. J. Wessels, South Africa.
- 56 { Alex. Macpherson, Edinburgh.
K. N. Rao, India.
W. B. Ross, Perth.
- 59 { L. R. S. Gunson, Whitehaven.
Jacob Laltoo, British West Indies.
Max Sash, South Africa.

- 62 { A. C. Y. Chow, China.
W. G. Hughes, Wales.
N. W. Johnston, Llangholm.
J. K. Liddell, Errol.
- 62 { J. S. Mann, Oban.
D. I. O. Macaulay, Yorkshire.
F. W. Simson, New South Wales.
- 70 { J. W. R. Sutherland, Edin.
C. G. Booker, South Africa.
Edward Dickson, Constantinople.
P. B. Eaton, Canada.
J. G. Hughes, Carnarvonshire.
E. R. Manning, Sydney.
- 70 { H. O. Marks, New South Wales.
G. S. Mackay, Scotland.
D. G. Robertson, Edinburgh.
W. N. Rout, New Zealand.

Second-Class Honours.

- 79 { G. S. Bainbridge, India.
R. P. Cole, Morayshire.
A. A. Denham, England.
P. B. Malherbe, S. Africa.
- 83 { M. S. Abaza, Egypt.
El. Arosomena, Panama.
Cecil Blake, S. Africa.
S. Boodoo Singh, Trinidad.
- 83 { C. G. L. Edwards, Calcutta.
E. F. Gordon, British W. Indies.
Laurence Laurenson, Lerwick.
J. M. Smith, Boyle.
- 91 { Henry Oliver, Australia.
M. S. Peralla, Malacca.
- 91 { C. E. Scott, Selkirk.
M. S. Tun, Burma.
- 95 { I. C. C. Barclay, Scotland.
G. S. Gill, India.
- 95 { H. M. Jacobs, S. Africa.
Shem Stein, S. Africa.
- 99 { N. M. Anderson, India.
A. S. Garewal, India.
- 99 { A. Klenerman, S. Africa.
Frank Gunaratna, India.
- 102 { B. T. Halliwell, Gloucestershire.
J. C. Moolman, S. Africa.
M. Z. Sheriff, Egypt.

- 106 { Max Lipschitz, S. Africa.
H. B. Pierce, Llangollen.
- 109 { M. R. Soni, India.
D. J. Micah, Wales.
- 109 { F. P. MacGillivray, Edin.
- 111 { R. F. Boltham, S. Africa.
- 112 { S. D. Gupta, India.
- 113 { B. C. J. Miller, Rangoon.
T. B. Moyes, Calcutta.
- 113 { J. K. Murray, Stalybridge.
D. S. H. Walker, Scotland.
- 117 { J. S. Moroka, S. Africa.
J. D. Russel, Arbroath.
- 117 { W. S. Valentine, Earlstown.
- 120 { J. T. Johnston, Co. Derry.
- 121 { J. H. Skyes, Australia.
- 122 { C. M. Thomas, Camborne.
- 123 { H. D. Lazarus, Ceylon.
- 123 { J. K. Mitchell, Edzell.
- 125 { W. A. Gray, Edinburgh.
- 126 { J. A. Beckles, Trinidad.
- 127 { W. H. Critien, Malta.
D. N. Dutt, Calcutta.
- 127 { J. C. M'Cartney, Ireland.

B—IN BRISTO STREET DEPARTMENT.

First-Class Honours.

1	{	E. A. Carmichael, Edinburgh.	Medal-	lists.	15	{	Thomas Skene, Edinburgh.
		E. H. Goodfellow, New Zealand.			17	{	G. M. Clark, Edinburgh.
3	{	J. L. Lamont, Treherne.			19	{	D. J. Cameron, India.
5	{	W. G. Robson, Edinburgh			20	{	L. J. Howie, Edinburgh.
6	{	J. M. Tyrrell, Aberdeen.				{	D. H. Cameron, Glasgow.
8	{	A. O. Ross, Perth.				{	Arthur Campbell, India.
9	{	Joseph Schneider, S. Africa.				{	J. W. C. Fairweather, Maryton.
11	{	Jacob Wolfson, Russia.				{	D. M. Morison, Edinburgh.
13	{	Malcolm Macdonald, Edin.				{	R. B. Smith, Ashton-under-Lyne.
	{	W. M. Macphail, Argyllshire.			24	{	R. H. Rose-Innes, S. Africa.
	{	J. H. Kerr, Grantown-on-Spey.			25	{	E. H. Connel, London.
	{	J. F. M'Conchie, Scotland.			26	{	W. D. Brunton, Perth.
	{	J. C. Burns, Hawick.				{	R. M. Burnie, Currie.
	{	J. T. Wilson, Tundergarth.					

Second-Class Honours.

28	{	P. H. J. Turton, Derbyshire.	50	{	G. S. Freeman, Dundee.
	{	Robert Wallace, Belfast.		{	C. B. Reekie, Kirkcaldy.
	{	C. A. Calder, Jamaica.	52	{	A. M. Duff, Edinburgh.
30	{	H. H. Macrosty, London.		{	Alan Strachan, Cardiff.
	{	R. B. MacGregor, Scotland.		{	K. S. Ward, Sevenoaks.
	{	Andrew Robertson, Edinburgh.	55	{	Oliver Grey, Edinburgh.
	{	G. J. Alexander, Edinburgh.		{	H. B. Renton, Chester-le-Street.
34	{	E. S. Candlish, Bury.		{	R. N. Gibson, Westmorland.
	{	A. G. Mackay, Dundee.	57	{	A. H. M. Henderson, Edin.
37	{	W. M. M'Alister, Campbeltown.		{	A. D. Odling, Persia.
	{	Donald Rankine, Oban.		{	Wm. Anderson, Jedburgh.
	{	D. A. Cunningham, Edinburgh.	60	{	T. C. Wakefield, Cornwall.
39	{	K. M. M'Cracken, Newcastle-on-Tyne.		{	D. T. Watt, Aberdeen.
	{	H. S. Percival, Edinburgh.	63	{	Arch. Ainslie, Tasmania.
42	{	D. R. Bomford, Evesham.		{	J. C. Mackay, Berwick-on-Tweed.
	{	G. A. Hunter, Edinburgh.	64	{	A. R. Walker, Elgin.
	{	George Buchanan, Scotland.	66	{	G. A. Sinclair, Edinburgh.
44	{	T. S. Duncan, Kirkcaldy.	67	{	Philip Barlow, Leicester.
	{	F. J. C. Moffat, Edinburgh.	68	{	Chas. Brownlie, South Africa.
	{	A. A. Thomson, Aberdeen.	69	{	R. G. Bates, Glasgow.
47	{	E. J. Thomson, Lanarkshire.			
	{	A. T. Woodward, Sunderland.			

The following students have been recommended for the *Mackenzie Bursaries*:—L. G. Allan, Alfred Badenoch, C. G. Terrell, and Robert Walker.

The following students have been recommended for the *John Aitken Carlyle Bursaries*:—*Senior*—Robert Walker. *Junior*—H. R. Goldberg.

*Summer 1914.***SENIOR PRACTICAL ANATOMY.***First-Class Honours.*

- | | | |
|--|-----------------|---------------------------------|
| 1 Robert Walker, Australia. | } <i>Medals</i> | 6 Jacob Wolfson, South Africa. |
| 2 J. L. Laidlaw, Kelso. | | 7 { L. G. Allan, Australia. |
| 3 { J. S. Bow, Larbert.
Robert Mailer, Stirling.
A. O. Ross, Perthshire. | | { Jos. Schneider, South Africa. |

Second-Class Honours.

- | | | |
|---|-----------------|---|
| 9 { J. M. Tyrrell, Aberdeen.
W. A. Weatherhead, Edin. | } <i>Medals</i> | 20 { H. S. Lucraft, Australia.
D. A. Miller, Ayr. |
| 11 A. C. C. Craig, Lockerbie. | | 22 { Alfred Badenoch, Dunfermline. |
| 12 { R. D. Osler, South Africa.
J. H. Sypkens, South Africa. | | { R. H. Rose-Innes, S. Africa. |
| 14 D. H. Williamson, Fife. | } <i>Medals</i> | 25 { E. H. Ablett, Cumberland.
Frank Chilton, New Zealand. |
| 15 { Wm. Everett, Canada.
A. van der Poel, South Africa. | | 27 J. H. Dick, Hamilton. |
| 16 { Andrew Robertson, Edin.
J. C. Burns, Hawick. | | 28 Jas. Aitken, Liverpool. |
| 18 { D. A. Knight, Barbados. | } <i>Medals</i> | 29 D. I. Cameron, India. |
| | | 30 H. B. Thomson, Edinburgh. |

JUNIOR PRACTICAL ANATOMY.*A—IN UNIVERSITY BUILDINGS.***I.—First and Second Year Men.***First-Class Honours.*

- | | | |
|--|-----------------|--|
| 1 A. van der Poel, South Africa. | } <i>Medals</i> | 14 { W. N. Rout, New Zealand.
F. W. Simson, Australia. |
| 2 { W. D. Mackinnon, Torrance.
A. M. W. Rae, Arbroath. | | 16 R. K. S. Lim, Singapore. |
| 4 H. W. Y. Taylor, Morayshire. | | 17 A. S. Russell, Selkirk. |
| 5 A. C. Y. Cochrane, Bo'ness. | } <i>Medals</i> | 18 { Cecil Blake, South Africa.
George Buchanan, Edinburgh. |
| 6 K. B. Williamson, South Shields. | | { P. C. Datta, India. |
| 7 { J. G. Allan, Whitburn.
J. H. Crawford, Morayshire. | | 20 { Denis Gay, India.
H. R. Goldterg, South Africa. |
| 8 { E. H. Goodfellow, N.Z.
H. J. Parish, Scotland. | } <i>Medals</i> | { D. C. Lamont, Inverness. |
| 9 { W. B. Reid, New Zealand.
Duncan Ferguson, Balquhider. | | { J. P. Leckie, Cupar-Fife. |
| 12 { A. V. Stewart, Newton-Stewart. | | { N. W. Stewart, Newton-Stewart. |
| | } <i>Medals</i> | 26 { Jas. M'Nabb, Glasgow.
G. M. Shaw Smith, Muirkirk. |

28	{	C. G. Booker, South Africa.	38	{	V. C. Beckerleg, Natal.
		Jas. Davidson, Dumfries.			W. A. Gray, Edinburgh.
32	{	E. R. Manning, Sydney.	42	{	L. R. S. Gunson, Cumberland.
		Jas. Reid, Scotland.			L. C. D. Hermitte, Seychelles Islands.
		K. F. Caird, Edinburgh.			A. C. Y. Chow, China.
		A. J. A. Edwards, St Louis.			C. G. N. Edwards, Calcutta.
37	{	R. N. Johnson, South Africa.	42	{	M. J. Gibson, Ulster.
		D. J. Micah, Wales.			J. K. Liddell, Perthshire.
		J. W. M'Vicker, Ireland.			Moray Melvin, Fraserburgh.
		H. B. Pierce, Llangollen.			Alex. M'Pherson, Scotland.

Second-Class Honours.

48	H. A. Girby, Egypt.	82	{	G. S. Mackay, Sutherland-shire.
49	W. A. Hennessy, New Zealand.			R. I. O. Taylor, Forfarshire.
50	G. J. Hughes, Wales.	88	{	P. H. J. Turton, Derby.
51	H. B. M'Kenzie, New Zealand.			G. H. Gunn, Caithness.
52	Thos. Skene, Edinburgh.	90	{	J. E. B. Miller, Londonderry.
53	{ A. S. Garewal, India.			D. J. T. Oswald, Anstruther.
	{ S. N. Gupta, India.	94	{	H. M. Jacobs, S. Africa.
55	{ H. H. Lim, Singapore.			John Learmont, Scotland.
	{ Max. Lipschitz, South Africa.	99	{	N. M. Anderson, Rawal Pindi.
	{ J. K. Lwin, China.			I. C. C. Barclay, Scotland.
	{ R. C. B. Macrae, New Zealand.	103	{	S. Boodoosingh, Trinidad.
57	{ J. S. Mann, Scotland.			W. J. Dunn, Dumfries.
	{ D. P. M'Iver, Islay.	110	{	E. F. Gordon, British W. Indies.
	{ R. B. Smith, London.			H. D. J. Lazarus, Ceylon.
	{ J. T. Wilson, Scotland.	111	{	J. M. M'Pherson, Kirkcaldy.
63	John Campbell, Perthshire.			W. B. Ross, Perth.
64	{	99	{	M. Z. Sheriff, Egypt.
				El. Arosomena, Panama.
	{ G. S. Bainbridge, England.	103	{	J. K. Mitchell, Edzell.
	{ R. E. Burns, Australia.			J. W. R. Sutherland, Edin.
	{ P. B. Eaton, Canada.	110	{	T. J. M. Walker, S. Africa.
	{ G. B. Flint, Australia.			I. A. Beckles, British W. Indies.
	{ D. I. O. Macaulay, Yorkshire.	110	{	R. M. Bomford, Evesham.
68	{ Andrew Peffers, Forfar.			R. P. Cole, Lossiemouth.
	{ Chas. Simpson, Inverness.	111	{	Kevin Ebsworth, Australia.
	{ S. Stein, S. Africa.			N. W. Johnston, Langholm.
	{ E. D. D. Dickson, Constantinople.	110	{	K. N. Rao, India.
72	{ R. M. Gardner, Glasgow.			D. W. Sinclair, Annan.
	{ A. Klenerman, S. Africa.	110	{	M. S. Tun, Burma.
75	{ R. M. Burnie, Dumfriesshire.			F. G. Harman Brown, Coventry.
	{ B. T. Halliwell, Winchcombe.	111	{	P. B. Malherbe, S. Africa.
	{ J. D. Mill, Anstruther.			H. O. Marks, Australia.
	{ Max Sash, S. Africa.	111	{	J. J. Wessels, S. Africa.
76	{ J. Melville Smith, Ireland.			
	{ J. L. Wilson, Markinch.			
	{ M. R. Zada, Egypt.			

II.—Freshmen.

First-Class Honours.

- | | | | | |
|---|--|-------------------|----|---|
| 1 | { W. H. Herberg, S. Africa.
Israel Platzky, S. Africa. } | <i>Medal-ists</i> | 11 | R. M. van der Merwe, S. Africa. |
| 3 | { John P. Hope, Musselburgh.
H. S. Plowman, Natal. } | | 12 | J. R. Katariya, India. |
| 5 | Jos. Edelstein, S. Africa. | | | { J. L. Lowden, Liverpool.
E. P. O'Dowd, Westport, Ire-land. } |
| 6 | { I. H. Shapiro, S. Africa.
R. B. Watson, Edinburgh. } | | 13 | { F. H. Reynolds, Tavoy.
J. H. Verwey, Africa. } |
| | { J. A. L. Cook, Natal. } | | 17 | { R. M. MacNair, Northumber-land.
F. P. Walsh, Australia. } |
| 8 | { C. G. L. van Dyk, S. Africa.
Harry Hastings, Edinburgh. } | | | |

Second-Class Honours.

- | | | | | |
|----|---|--|----|--|
| 19 | E. G. R. Grant, Madras. | | 34 | { R. J. W. Ritchie, Edinburgh.
Ed. Robinson, Yorkshire. } |
| | { R. M. Cairns, Cockermouth.
J. J. M'Caa, Girvan. } | | 36 | { R. L. Langley, Nottingham.
D. F. Yuille, Scotland. } |
| 20 | { O. P. Nimmo, Edinburgh.
Jas. Stewart, Scotland. } | | 38 | { J. H. Cameron, London.
K. S. Dick, Hamilton. } |
| 24 | E. M. Fraser, Tain. | | | { Henry Thomson, Aberdeen.
F. K. Gollcher, Malta. } |
| 25 | { A. F. Abassi, Egypt.
G. C. Hutton, S. India. } | | 41 | { O. Murray Lyon, Mid-Calder.
W. D. Walker, Durham. } |
| 27 | P. P. Rao, India. | | 44 | Herbert Booth, Crewe. |
| 28 | E. O. Ruddock, New Zealand. | | 45 | P. C. Uys, S. Africa. |
| 29 | J. H. Fletcher, England. | | | { K. S. Brown, Edinburgh.
A. C. E. F. Kennish, London. } |
| 30 | R. L. Galloway, Edinburgh. | | 46 | { E. M. S. A. Renner, Sierra Leone. } |
| 31 | A. G. Cumming, Thurso. | | | |
| 32 | { A. R. McLean, British W. Indies.
D. C. Wilson, Fife. } | | | |

B—IN BRISTO STREET DEPARTMENT.

First-Class Honours.

- | | | | | |
|---|---|-------------------|----|--|
| 1 | W. G. Robson, Edin. | | 9 | A. A. Thomson, Aberdeen. |
| | { R. G. Broadwood, Scot-land.
D. H. Cameron, Thurso. } | <i>Medal-ists</i> | | { G. M. Clark, Edinburgh.
Oliver Gray, Edinburgh. } |
| 2 | { J. L. Lamont, Canada. } | | 10 | { G. A. MacAdie, Thurso.
W. M. M'Alister, Campbel-town. } |
| 5 | A. H. M. Henderson, Edin. | | | Robert Wallace, Belfast. |
| 6 | C. W. Patterson, Tasmania. | | | |
| 7 | { E. A. Carmichael, Edinburgh.
J. A. Glover, Shetland. } | | | |

Second-Class Honours.

- | | | | |
|------|--------------------------------|------|---------------------------------|
| 15 { | W. H. Davies, Darlington. | 38 { | A. M. Duff, Edinburgh. |
| | B. S. Simpson, Golspey. | | W. M. Macphail, Argyllshire. |
| | W. G. Hughes, North Wales. | 40 { | Charles Brownlie, South Africa. |
| 17 { | J. H. Kerr, Scotland. | | E. J. Thomson, Lanarkshire. |
| | J. F. M'Conchie, Stranraer. | | E. H. Connell, London. |
| | C. S. Nimmo, Edinburgh. | | D. A. Cunningham, Edin. |
| 21 { | T. F. Andrew, South Africa. | 42 { | L. J. Howie, China. |
| | R. N. Gibson, Oxtou. | | J. B. Liggins, New Zealand. |
| | H. M. Horrox, Edinburgh. | | Malcolm Macdonald, Edin. |
| | C. A. Calder, Jamaica. | | J. F. S. Wiseman, India. |
| 24 { | G. S. Freeman, Dundee. | 48 { | H. S. Percival, Edinburgh. |
| | J. C. M'Gown, Millport. | 49 { | F. J. C. Moffat, Edinburgh. |
| 27 { | R. F. Balmain, Edinburgh. | | A. A. Denham, Cambridge. |
| | E. M. Byres, Edinburgh. | 50 { | J. T. Johnston, Derry. |
| | R. G. A. Dickson, Dunkeld. | | John Tulloch, Aberfeldy. |
| 28 { | A. T. W. Macrae, Lochearnhead. | 53 { | H. E. Kavanagh, Auckland, N.Z. |
| | W. Y. Eccott, Edinburgh. | 54 { | R. B. MacGregor, Dunbar. |
| 31 { | G. A. Hunter, Edinburgh. | | G. J. Alexander, Edinburgh. |
| | Arthur Campbell, Belfast. | 55 { | Donald Rankine, Fort-William. |
| 33 { | E. E. Candlish, Bolton. | 57 { | Arch. Ainslie, Moffat. |
| | J. A. Hennessy, New Zealand. | 58 { | D. M. Morison, India. |
| | William Anderson, Scotland. | | A. R. Walker, Elgin. |
| 36 { | T. J. White, Newport-on-Tay. | 60 { | D. T. Watt, Aberdeen. |

T. B. JOHNSTON, M.B., Ch.B. } *Lecturers.*
 E. B. JAMIESON, M.D. }
 ARTHUR ROBINSON, M.D., *Professor.*

PHYSIOLOGY.

- | | | |
|---|--------------------------|----------------------|
| 1 | Robert Mailer, Stirling. | } <i>Medallists.</i> |
| 2 | J. M. Tyrrell, Aberdeen. | |
| 3 | H. S. Lucraft, Adelaide. | |

First-Class Honours (arranged alphabetically).

- | | |
|---|----------------------------|
| L. G. Allan, Australia. | W. D. Mackinnon, Torrance. |
| John Sutherland Bow, Airth, by Larbert. | J. Ewart Purves, Scotland. |
| Pares Ch. Datta, India. | Robert Walker, Fremantle. |
| J. S. Macbeth, Pitlochry. | Jacob Wolfson, Russia. |

Second-Class Honours (arranged alphabetically).

- | | |
|------------------------------|-------------------------------------|
| J. M. Aitken, Liverpool. | R. Bisset-Smith, Ashton-under-Lyne. |
| J. G. Allan, Whitburn. | C. G. Booker, Ladysmith, C.P. |
| A. Badenoch, Dunfermline. | P. M. Brodie, Selkirk. |
| George Balsillie, Edinburgh. | W. D. Brunton, Perth. |
| J. C. Bedwell, Colchester. | |

J. Crawford Burns, Selkirk.
 D. Chanis, Panama.
 F. Chilton, New Zealand.
 A. Y. Cochrane, Bo'ness.
 D. Cook, New Zealand.
 A. C. C. Craig, Lockerbie.
 F. R. Cripps, Scotland.
 H. N. Daniel, Barrow-in-Furness.
 T. S. Duncan, Kirkcaldy.
 G. W. Dunlop, Inverness.
 A. Ralph Erskine, Edinburgh.
 Wm. Everett, Dumbarton.
 Dennis Gay, India.
 J. A. Hadfield, Loyalty Isles.
 T. E. Hastings, Londonderry.
 James L. Hill, Cricff.
 R. H. Rose Innes, South Africa.
 Alex. Joe, Brechin.
 R. N. Johnson, South Africa.
 D. A. Knight, Barbados.
 J. L. Laidlaw, Scotland.
 J. L. Lamont, Treherne.
 J. P. Leckie, Scotland.
 D. M'Eachran, Edinburgh.
 R. MacGarrol, Inverness.

G. J. M'Lean, Trinidad.
 J. Messer Martin, Hawick.
 A. R. Matheson, Edinburgh.
 R. A. Nathaniel, Trinidad.
 J. H. Neill, Scotland.
 R. D. Osler, South Africa.
 A. S. Paranjpe, India.
 A. van der Poel, South Africa.
 C. B. Reekie, Kirkcaldy.
 C. D. Ritchie, Brechin.
 A. O. Ross, Scone, Perthshire.
 A. S. Russell, Selkirk.
 F. B. Sanderson, Edinburgh.
 Joseph Schneider, South Africa.
 J. Ord Pender Smith, Dingwall.
 R. L. Stewart, Edinburgh.
 J. A. Stirling, Eastbourne.
 H. W. Y. Taylor, Burghhead.
 C. G. Terrell, Reading.
 L. W. Thomas, London.
 H. B. Thomson, Edinburgh.
 Lindsay Walker, Mid-Calder.
 D. W. Warren, Edinburgh.
 John Watson, Edinburgh.
 W. A. Weatherhead, Edinburgh.

PRACTICAL PHYSIOLOGICAL CHEMISTRY.

- | | | |
|---|---------------------------------|-----------------------|
| 1 | Alexander Woodward, Sunderland. | } <i>Medicilists.</i> |
| 2 | { Robert Walker, Fremantle. | |
| | { J. Ewart Purves, Scotland. | |
| 4 | W. D. Mackinnon, Torrance. | |

First-Class Honours (arranged alphabetically).

J. Allison, Kettering.
 J. C. Bedwell, England.
 R. Bowman, Ireland.
 W. D. Brunton, Perth.
 Frank Chilton, New Zealand.
 J. W. A. Hunter, Derby.
 Norman Jennings, England.
 J. L. Lamont, Treherne.
 J. S. Macbeth, Pitlochry.

Robert Mailer, Stirling.
 D. A. Miller, Ayr.
 W. M. Mitchell, Sutherland.
 D. Murray-Young, Ayrshire.
 C. D. Ritchie, Brechin.
 J. Ord Pender Smith, Dingwall.
 J. H. Sypkens, South Africa.
 Donald W. Warren, Edinburgh.
 W. A. Weatherhead, Edinburgh.

Second-Class Honours (arranged alphabetically).

M. A. Abaza, Egypt.
 James Aitken, Liverpool.
 J. G. Allan, Whitburn.
 L. G. Allan, Australia.
 A. Badenoch, Dunfermline.

George Balsillie, Edinburgh.
 P. Barlow, Leicester.
 R. E. Batson, Barbados.
 C. G. Booker, South Africa.
 J. Sutherland Bow, Airth.

- E. B. Brown, Preston.
 P. M. Brodie, Selkirk.
 C. B. Brownlie, Orkney Islands.
 J. C. Burns, Selkirk.
 Donald I. Cameron, India.
 B. T. Chain, Burma.
 A. Y. Cochrane, Bo'ness.
 Duncan Cook, New Zealand.
 H. N. Daniel, Barrow-in-Furness.
 J. H. Dick, Hamilton.
 T. S. Duncan, Kirkcaldy.
 G. W. Dunlop, Scotland.
 W. Everett, Dumbarton.
 J. W. C. Fairweather, Maryton.
 M. H. A. Fletcher, Mardon.
 N. P. R. Galloway, Aberdeen.
 Denis Gay, India.
 N. de V. Graaff, South Africa.
 E. F. Griffin, Natal.
 J. A. Hadfield, Loyalty Isles.
 T. E. Hastings, Londonderry.
 J. L. Hill, Crieff.
 Alexander Joe, Brechin.
 R. N. Johnson, South Africa.
 D. J. A. Kerr, London.
 M. Ba Kin, Burma.
 D. A. Knight, Barbados.
 J. L. Laidlaw, Scotland.
 J. P. Leckie, Scotland.
 Victor Lucas, Trinidad.
 H. S. Lucraft, Adelaide.
 J. M'Allan, Aberdeen.
 James M'Auslin, Natal.
 David M'Eachran, Edinburgh.
 R. MacGarrol, Inverness.
 J. C. Mackay, Berwick-on-Tweed.
 R. D. Mackenzie, Edinburgh.
 D. W. M'Lean, Annan.
 G. J. M'Lean, Trinidad.
 Ian F. M'Leod, Jersey.
 H. H. Macrosty, London.
 J. Messer Martin, Hawick.
 H. R. Matheson, Edinburgh.
 F. Maya Das, India.
 R. A. Nathaniel, Trinidad.
 J. H. Neill, Edinburgh.
 Tin Po Ng, China.
 R. D. Osler, South Africa.
 A. S. Paranjpe, Bombay.
 A. van der Poel, South Africa.
 F. W. Poole, Scotland.
 A. Rawson, London.
 C. B. Reekie, Kirkcaldy.
 H. B. Renton, Chester-le-Street.
 R. H. Rose-Innes, South Africa.
 Sid Rosenthal, New South Wales.
 Alex. S. Russell, Selkirk.
 F. B. Sanderson, Edinburgh.
 J. M. H. Smellie, Scotland.
 R. Bisset-Smith, Ashton-under-Lyne.
 Stuart L. Smith, Dumfries.
 J. F. Stewart, Aberdeenshire.
 J. A. Stirling, Sussex.
 A. Strachan, Cardiff.
 H. W. Y. Taylor, Burghead.
 Charles G. Terrell, Reading.
 J. M. Tyrrell, Aberdeen.
 J. R. Ullo, Malta.
 J. R. de Villiers, South Africa.
 D. S. H. Walker, Scotland.
 L. Walker, Mid-Calder.
 J. Watson, Edinburgh.
 J. D. White, Middlesex.
 B. O. Wilkin, London.
 D. H. Williamson, Newburgh.
 J. Wolfson, Russia.

EXPERIMENTAL PRACTICAL PHYSIOLOGY.

- | | | | |
|---|---|------------------|--------------|
| 1 | { | F. W. Poole. | } Medallists |
| | | N. Jennings. | |
| | | J. S. Macbeth. | |
| 3 | { | F. B. Sanderson. | |
| | | B. O. Wilkin. | |

First-Class Honours (arranged alphabetically).

J. Aitken, M.A., Liverpool.
 J. G. Allan, Whitburn, W. Lothian.
 L. G. Allan, Australia.
 G. Balsillie, Edinburgh.
 R. B. Batson, Barbados.
 J. S. Bow, Airth, Larbert.
 P. M. Brodie, Selkirk.
 C. B. Brownlie, Orkney Islands.
 Y. Y. Chan, China.
 F. Chilton, New Zealand.
 A. Y. Cochrane, Bo'ness.
 F. R. Cripps, Scotland.
 H. N. Daniel, Barrow-in-Furness.
 W. J. Dunlop, Ireland.
 P. B. Eaton, Canada.
 W. Everett, Dumbarton.
 J. G. Gilruth, Douglas Water.
 E. F. Griffin, Natal.
 J. A. Hadfield, Loyalty Isles.
 T. J. Howell, Harrismith, O.F.S.
 R. N. Johnson, South Africa.
 D. A. Knight, Barbados.
 J. I. Kuit, South Africa.

J. L. Lamont, Treherne.
 H. S. Lucraft, Adelaide.
 D. W. M'Lean, Annan.
 H. H. Macrosty, London.
 R. Mailer, Stirling.
 G. L. Malcolm-Smith, Sussex.
 J. M. Martin, Hawick.
 T. P. Ng, China.
 J. M. S. Nichol, Scotland.
 A. van der Poel, South Africa.
 J. E. Purves, Edinburgh.
 S. Rosenthal, New South Wales.
 J. Schneider, South Africa.
 T. Scott, Eyemouth.
 J. A. Stirling, Sussex.
 H. W. Y. Taylor, Burghhead.
 C. G. Terrell, Reading.
 J. Thompson, Penrith.
 T. C. Wakefield, Cornwall.
 R. Walker, Fremantle.
 W. A. Weatherhead, Edinburgh.
 J. Wolfson, Russia.
 A. T. Woodward, Sunderland.

Second-Class Honours (arranged alphabetically).

J. J. Ackermann, South Africa.
 H. M. Anderson, Hong-Kong.
 A. Badenoch, Dunfermline.
 P. Barlow, Leicester.
 J. C. Bedwell, Colchester.
 R. Bisset-Smith, Ashton - under-Lyne.
 C. G. Booker, Ladysmith, C.P.
 R. M. Bowman, Ireland.
 E. B. Brown, Preston.
 J. C. Burns, Selkirk.
 G. G. Campbell, Natal.
 B. T. Chain, Burma.
 B. Cheifitz, Beaufort West.
 D. Cook, New Zealand.
 A. C. C. Craig, Lockerbie.
 P. C. Datta, India.
 J. H. Dick, Hamilton.
 N. A. Doggart, Kirkcaldy.
 T. S. Duncan, Kirkcaldy.
 G. W. Dunlop, Inverness.
 A. J. A. Edwards, St Louis.
 A. R. Erskine, Edinburgh.
 J. W. C. Fairweather, Maryton.

M. H. A. Fletcher, Mardon, Wilts.
 N. P. R. Galloway, Aberdeen.
 A. S. Garewal, Punjab.
 D. Gay, Hyderabad.
 R. N. Gibson, Orton.
 K. Gillis, Königsberg.
 N. de V. Graaff, South Africa.
 T. E. Hastings, Londonderry.
 J. L. Hill, Crieff.
 S. S. Horwitz, South Africa.
 J. W. A. Hunter, Derby.
 A. J. Innes, Auckland, N.Z.
 E. S. Jackson, Lancashire.
 A. Joe, Brechin.
 D. J. A. Kerr, London.
 J. H. Kerr, Grantown-on-Spey.
 J. L. Laidlaw, Scotland.
 J. P. Leckie, Scotland.
 Y. C. Lee, China.
 K. P. Leung, China.
 J. M'Allan, Aberdeen.
 J. M'Auslin, Natal.
 D. M'Eachran, Edinburgh.
 R. MacGarrol, Inverness.

J. C. Mackay, Berwick-on-Tweed.	C. B. Shapiro, South Africa.
R. D. Mackenzie, Edinburgh.	J. Sharp, Scotland.
L. Mackinnon, Tobermory.	A. M. Simson, Edinburgh.
W. D. Mackinnon, Torrance.	J. M. H. Smellie, Scotland.
I. F. Macleod, Jersey.	J. O. Pender Smith, Dingwall.
J. W. Mason, New South Wales.	S. L. Smith, Dumfries.
F. Maya Das, India.	R. L. Stewart, Edinburgh.
F. A. Meiné, South Africa.	A. Strachan, Cardiff.
D. A. Miller, Ayr.	J. H. Sypkens, South Africa.
W. Mitchell, Sunderland.	A. B. Thaw, Burma.
A. J. Muirhead, Paxton.	H. B. Thomson, Scotland.
J. H. Neill, Edinburgh.	T. R. R. Todd, Mid-Lothian.
R. D. Osler, South Africa.	J. M. Tyrrell, Aberdeen.
A. S. Paranjpe, India.	D. S. H. Walker, Scotland.
H. Patlansky, Johannesburg.	L. Walker, Mid-Calder.
A. Rawson, London.	K. L. Ward, Brasted, Kent.
C. B. Reekie, Kirkcaldy.	D. W. Warren, Edinburgh.
H. B. Renton, Chester-le-Street.	J. D. White, Middlesex.
A. Robertson, Edinburgh.	D. H. Williamson, Fife.
J. K. G. Robertson, Sussex.	D. Murray Young, Lugar.
A. S. Russell, Selkirk.	

Summer 1914.

PRACTICAL HISTOLOGY.

First-Class Honours.

1 { George Buchanan, Edinburgh.	} <i>Medallists</i>
1 { William Everett, Dumbarton.	
3 { James Aitken, M.A., Liverpool.	
3 { J. L. Lamont, Treherne, Canada.	
5 P. H. J. Turton, Scotland.	
6 Sid Rosenthall, New South Wales.	

The following are arranged in alphabetical order :—

J. G. Allan, Whitburn, W. Lothian.	H. H. Lim, Singapore.
Alex. Y. P. Cochrane, Bo'ness.	H. S. Lucraft, Adelaide.
P. B. Eaton, Canada.	H. B. Mackenzie, New Zealand.
Denis Gay, Hyderabad.	H. H. Macrosty, London.
H. A. Girby, Alexandria.	A. R. Matheson, Edinburgh.
L. C. D. Hermitte, Seychelles Islands.	A. B. Thaw, Burma.
James H. Kerr, Grantown-on-Spey.	Wm. A. Weatherhead, Edinburgh.
G. Lange, Lindley, O.F.S.	J. J. Wessels, South Africa.

Second-Class Honours.

George G. Alexander, Edinburgh.	V. C. Beckerleg, Natal.
L. G. Allan, Australia.	Chas. G. Booker, South Africa.
George Balsillie, Edinburgh.	J. Crawford Burns, Hawick.
Richard E. Batson, Barbados, B.W.I.	Robert E. Burns, Australia.
	L. F. Caird, Scotland.

D. I. Cameron, Sylhet, India.
 John Campbell, Killin.
 E. A. Carmichael, Edinburgh.
 Frank Chilton, New Zealand.
 Albert C. Y. Chow, China.
 George M. Clark, Edinburgh.
 W. E. Coutts, Chile.
 William C. Craig, Lockerbie.
 P. C. Datta, India.
 James H. Dick, Hamilton.
 Edward D. D. Dickson, Constantinople.
 T. Smith Duncan, Kirkcaldy.
 G. W. Dunlop, Inverness.
 Kelvin Ebsworth, Australia.
 Gordon B. Flint, Australia.
 H. R. Goldberg, South Africa.
 N. de V. Graaff, South Africa.
 B. T. Halliwell, Winchcombe, Glos.
 A. Langlands Innes, Auckland, N.Z.
 Harry M. Jacobs, South Africa.
 Denis A. Knight, Barbados, B.W.I.
 J. Leslie Laidlaw, Scotland.
 Joseph Primrose Leckie, Scotland.
 Kenneth M'Cracken, Newcastle-on-Tyne.

David M'Eachran, Edinburgh.
 R. D. Mackenzie, Edinburgh.
 W. D. Mackinnon, Torrance.
 Robert Macnair, Alnwick.
 Robert Mailer, Stirling.
 R. D. Osler, South Africa.
 J. S. Plowman, Natal.
 J. Ewart Purves, Scotland.
 C. B. Reekie, Kirkcaldy.
 H. B. Renton, Chester-le-Street.
 A. S. Russell, Selkirk.
 J. Schneider, South Africa.
 Charles Shapiro, South Africa.
 J. M. H. Smellie, Scotland.
 G. M. Shaw Smith, Muirkirk.
 J. Ord Pender Smith, Dingwall.
 J. Fleming Stewart, Scotland.
 D. G. Stoute, British Guiana.
 Hugh W. Y. Taylor, Morayshire.
 John Tulloch, Fortingal, Aberfeldy.
 J. M. Tyrrell, Aberdeen.
 Robert Walker, Fremantle.
 T. J. M. Walker, South Africa.
 J. Leslie Wilson, Markinch, Fife.
 A. T. Woodward, Sunderland.

E. A. SCHAFER, Kt., LL.D., F.R.S., *Professor.*

PATHOLOGY.

Seniors.

First-Class Honours.

- | | | | | |
|---|--------------------------------|-------------|---|-------------------------------|
| 1 | William Brownlie, New Zealand. | Medal-lists | 3 | Alfred O. Dill, Scotland. |
| 2 | John M. Watt, Port Elizabeth. | | 4 | P. Cousin Davie, New Zealand. |

Second-Class Honours.

- | | | | |
|----|---|---|--------------------------------------|
| 5 | { J. Cameron Morris, Edinburgh.
W. K. M'Intyre, Tasmania. | { | A. H. de W. Budler, South Africa. |
| 7 | Robert J. M. Horne, Edinburgh. | | C. T. I. Clarke, South Africa. |
| 8 | { Thos. Crisp, New South Wales.
Kenneth C. Ferguson, Nasik, India. | { | J. de V. Meiring, Cape Colony. |
| 10 | George Morris, Edinburgh. | | 14 |
| 11 | { John M. Johnston, Selkirk.
Wm. Richards, South Wales. | { | A. Ravunni, India. |
| 13 | Francis W. Clark, Maryport. | | R. R. S. Weathersson, Coldstream. |
| | | { | Charles W. N. A. Yow, South America. |
| | | | 21 |
| | | | { Norman H. Smith, Jersey. |

23	Wm. Waddell, South Africa.				Wm. Welch Brown, Falkirk.
24	{ Douglas Wilson, Edinburgh.				{ Joseph M. Norman, Keswick.
	{ F. A. Mills, New Zealand.				{ James Ratcliffe, Bolton.
	{ H. Wallace Burne, Delhi.		41		{ Wm. C. Thomson, South
	{ James Dickson, Scotland.				{ Africa.
26	{ Geo. H. Fraser, Leith.				{ R. A. Warters, England.
	{ Jas. Milne, Forfar.		46		{ A. R. Hudson, Billingford.
	{ Pierre A. Rostant, Trinidad.				{ A. R. Lawrie, Derby.
	{ A. Aziz, Cairo.		47		{ Cedric Russell.
31	{ Charles M'Donald, Scotland.				{ J. R. Payn, Natal.
	{ Fred. H. Nixey, England.		49		{ D. R. Thomas, Wales.
	{ K. Paterson-Brown, Edinburgh.		50		{ Gerald H. Barry, Lancaster.
	{ John A. Crawford, Fauldhouse.		51		
	{ Malcolm Foster, Scotland.				
34	{ John S. Galvin, India.				
	{ L. Walrond Innes, Mauritius.				
	{ E. S. Seah, Singapore.				
	{ C. W. Stump, South Australia.				

Juniors.

First-Class Honours.

1	Andrew J. Caird, Perth (<i>Medal-</i>				
	<i>list</i>).				
2	John L. Owen, Melbourne.				
		3			{ R. B. Buchanan, Londonderry.
					{ B. J. Ryrie, Montrose.

Second-Class Honours.

5	John Bennet, Ratho.				16	{ Henry B. Kirk, Edinburgh.
6	Thomas F. Corkill, New					{ Adam Prentice, Prestonpans.
	Zealand.				18	{ Ernest O. A. Singer, Austria.
7	R. D. Cameron, Inverness-					{ David L. Baxter, Greenock.
	shire.				20	{ Hamilton Moore, Ayrshire.
8	Neil Macleod, Edinburgh.				21	{ John O. Marais, South Africa.
	{ J. J. B. Edmond, Wanlock-				22	{ K. S. Ray, Calcutta.
	head.				23	{ Colin Milne, Bath.
9	{ Norris Giblin, Tasmania.					{ Joseph E. Phillips, Barbados.
	{ Ernest C. Fahmy, China.				24	{ Gerald W. Grant, Halifax.
11	{ Bernard H. Simon, Liverpool.					{ M. D. Thakore, India.
13	{ John A. Mackenzie, Scotland.					{ Wm. N. Greer, Ballyshannon.
14	{ Donald G. Duff, Wigan.				26	{ Charles E. Hill, Nottingham.
15	{ W. G. Owen-Morris, St Asaph.					{ Atholl Robertson, Perthshire.
						{ E. T. Neave Taylor, Madras.

J. LORRAIN SMITH, M.A., M.D., *Professor.*JAMES RITCHIE, M.A., M.D., *Professor.*

*Summer 1914.***PRACTICAL PATHOLOGY.****Seniors.***First-Class Honours.*

- | | | | |
|---|-----------------------------------|----|--------------------------------|
| 1 | Andrew J. Caird, Perth. | | David L. Baxter, Greenock. |
| | { Thomas F. Corkill, New Zealand. | 6 | { John Bennet, Ratho. |
| 2 | { John L. Owen, Melbourne. | | { Donald H. Paterson, Canada. |
| | { B. J. Ryrie, Montrose. | 9 | { R. B. Buchanan, Londonderry. |
| 4 | { Adam Prentice, Prestonpans. | | { J. E. Phillips, Barbados. |
| | | 11 | { John A. Mackenzie, Scotland. |

Second-Class Honours.

- | | | | |
|----|------------------------------------|----|------------------------------------|
| 12 | { R. D. Cameron, Inverness-shire. | | { Abner G. Anderson, Scotland. |
| | { J. J. B. Edmond, Wanlockhead. | 40 | { C. E. Meryon. |
| | { Ernest C. Fahmy, China. | | { Samuel D. Nurse, Demerara. |
| 15 | { Henry B. Kirk, Edinburgh. | | { K. S. Ray, Calcutta. |
| | { Ernest O. A. Singer, Austria. | 44 | { Thomas P. Parr, Dundee. |
| | { Norris Giblin, Tasmania. | | { C. D. Ritchie, Brechin. |
| 17 | { Charles E. Hill, Nottingham. | 46 | { Aubrey C. Kirton, Barbados. |
| | { Wm. L. Hunter, South Africa. | | { T. P. Woo, China. |
| | { R. L. Impey, Cape Colony. | | { J. J. Ackermann, S. Africa. |
| 21 | { Hamilton Moore, Ayrshire. | 48 | { H. Balfour Dykes. |
| | { Gordon R. Scarff, Scotland. | | { Colin Milne, Bath. |
| | { Donald G. Duft, Wigan. | | { W. G. F. Owen-Morris. |
| 23 | { A. M. L. Ferrie, Aberdeen. | 52 | { A. G. Carmichael, Biggar. |
| | { Frank Holmes, Barrow-in-Furness. | 53 | { Arthur M. M. Paterson, Scotland. |
| 25 | { E. T. Neave Taylor, India. | | { A. K. Gibson, Edinburgh. |
| | { Wm. N. Greer, Ballyshannon. | 54 | { R. N. Mackenzie, Argentina. |
| 27 | { F. H. Van der Merwe, Africa. | | { D. J. Morrison, Scotland. |
| | { J. C. Preston, Ireland. | 57 | { David Anderson, Edinburgh. |
| 30 | { W. Haig Ferguson, Edin. | | { Alex. J. Pollock, Mauchline. |
| | { Bernard H. Simon, Liverpool. | 59 | { Y. C. Lee, China. |
| | { C. B. C. Anderson, Rawal Pindi. | 61 | { D. O. Macdonald, Dundee. |
| 32 | { Atholl Robertson, Perthshire. | | { Harold Gordon. |
| | { Eric D. Söderström, Sweden. | 62 | { James B. Hanna, Ireland. |
| | { Walter F. Craig, Dundee. | | { Godfrey A. Paris, Egypt. |
| 35 | { A. M. Ghosh, India. | 64 | { Wm. R. Mathewson, Dunfermline. |
| | { C. S. Van Heerden, S. Africa. | | |
| | { Ernest G. Pyott, South Africa. | | |
| | { James M. Smellie, England. | | |

Mr Gerald W. Grant, Canada, gained First-Class Honours, and Messrs John O. Marais, South Africa, and Neil Macleod, Edinburgh, gained Second-Class Honours, but did not complete the work owing to illness.

Juniors.*First-Class Honours.*

- | | |
|---|--|
| 1 John S. Macbeth, Pitlochry
(<i>Medalhist</i>). | 2 R. L. Stewart, Edinburgh.
3 Duncan Cook, New Zealand. |
|---|--|

Second-Class Honours.

- | | |
|--|--|
| 4 { Martin Brodie, Selkirk.
Donald W. Warren, Edinburgh. | 13 James Leslie Hill, Crieff. |
| 6 Charles G. Terrell, Reading. | 14 D. Murray Young. |
| 7 Patrick D. McLaren, Perthshire. | 15 { J. Arthur Hadfield.
J. W. A. Hunter.
Robert A. Nathaniel. |
| 8 { Kurt Gillis, Königsberg.
A. van der Poel, South Africa. | 18 J. Allison, Kettering. |
| 10 { F. B. Sanderson, Perthshire.
S. C. Swinburne. | 19 R. N. Johnson, South Africa. |
| 12 Ian F. Macleod, Jersey. | 20 T. E. Hastings, Londonderry.
21 A. Ralph Erskine, Edinburgh. |

J. LORRAIN SMITH, M.A., M.D., *Professor.*

PRACTICAL PATHOLOGICAL BACTERIOLOGY.**Autumn Term.**

First-Class Honours and Class Medal—John L. Owen, Australia.

Second-Class Honours (in alphabetical order).

- | | |
|---------------------------|-----------------------------|
| A. H. Chu, China. | John Rodger, Scotland. |
| P. C. Davie, New Zealand. | Thos. Stephenson, Scotland. |
| F. Holmes, England. | |

Summer Term.

- | | |
|--|--|
| 1 { G. A. Borthwick,
M.B., England.
John Bennet, Scotland. | 6 Lawrence G. Fink, M.B., India |
| 3 (Captain) A. S. M. Peebles,
I.M.S., Scotland. | 7 { Khurshed Husain, India.
Robert Macpherson, M.B.,
Scotland. |
| 4 { Godfrey Paris.
J. A. Taylor, M.B. | 9 Stephen R. Rao, F.R.C.S.E.,
India. |

W. E. CARNEGIE DICKSON, M.D., *Lecturer.*

MATERIA MEDICA.*First-Class Honours.*

- | | | |
|---|---------------------------|-------------|
| 1 | J. Lewis Owen, Australia. | } Medalists |
| 2 | B. J. Ryrie, Montrose. | |

Second-Class Honours.

- | | | | |
|----|----------------------------------|------|-------------------------------|
| 3 | J. J. B. Edmond, Wanlockhead. | } 28 | T. Y. Barkley, Stranraer. |
| 4 | { A. V. Dill, Scotland. | | Norris Giblin, Tasmania. |
| | { R. B. Stewart, Glasgow. | | C. E. Hill, Nottingham. |
| 6 | { James Manuel, Forfar. | | A. G. Clark, New Zealand. |
| | { N. H. Smith, Jersey. | } 31 | A. M. Ghosh, India. |
| 8 | { James Milne, Edinburgh. | | William Goldie, Granton. |
| | { Douglas Wilson, Edinburgh. | | George Morris, Edinburgh. |
| | { John Bennet, Ratho. | | J. C. Preston, Ireland. |
| 10 | { J. C. Morris, Edinburgh. | 30 | { J. M. Johnstone, Selkirk. |
| 12 | C. T. I. Clarke, South Africa. | | Murdo Stewart, Portree. |
| 13 | H. B. Kirk, Edinburgh. | 38 | { D. L. Baxter, Greenock. |
| | { Wm. Brownlie, New Zealand. | | H. S. Moore, Ayrshire. |
| 14 | { J. A. Henderson, Shetland. | } 40 | K. C. Ferguson, India. |
| | { R. B. Buchanan, Londonderry. | | Neil Macleod, Edinburgh. |
| | { C. Davies-Jones, Carnarvon. | | Norman Reis, Scotland. |
| 16 | { C. W. Stump, Australia. | } 43 | J. S. Armstrong, Northampton. |
| | { R. R. Weatherston, Coldstream. | | A. J. Caird, Perth. |
| | { Thos. Crisp, New South Wales. | | H. C. Elder, Dundee. |
| 20 | { Wm. Waddell, South Africa. | | James Dickson, Scotland. |
| | { Thomas Corkill, New Zealand. | | D. G. Duff, Wigan. |
| | { W. N. Greer, Ballyshannon. | } 46 | L. W. Innes, Mauritius. |
| 22 | { J. E. Phillips, Barbados. | | J. B. Kirk, Falkirk. |
| | { P. A. Rostant, Trinidad. | | R. N. Phease, Edinburgh. |
| | { John Malcolm, Ayrshire. | | J. W. Riddoch, Edinburgh. |
| 26 | { T. M. J. Stewart, Mid-Lothian. | | G. R. Scarff, Scotland. |
| | | | M. D. Thakore, India. |

Absent from one of the class examinations on account of illness, and obtained at the others marks qualifying for Second-Class Honours:—R. Lancelot Impey, Cape Colony.

PRACTICAL MATERIA MEDICA.*First-Class Honours.*

- | | | | |
|---|--|-----|--------------------------|
| 1 | B. J. Ryrie, Montrose (<i>Medalist</i>). | } 2 | A. C. Kirkton, Barbados. |
| | | | 3 |

Second-Class Honours.

- | | | | |
|---|--------------------------------|-----|---------------------------|
| 4 | { John Bennet, Ratho. | } 7 | J. E. Phillips, Barbados. |
| | { R. B. Buchanan, Londonderry. | | 8 |
| | { Norris Giblin, Tasmania. | | |

- | | | | |
|----|--|----|---|
| 9 | { J. J. B. Edmond, Wanlockhead.
W. Haig Fergusson, Edin.
J. Balfour Kirk, Falkirk. | 23 | { H. B. Dykes, Dumfries.
B. H. Simon, Liverpool. |
| 12 | A. M. Patterson. | 25 | { D. L. Baxter, Greenock.
J. A. MacKenzie, Scotland. |
| 13 | C. E. Hill, Nottingham. | | { Neil Macleod, Edinburgh. |
| 14 | W. N. Greer, Ireland. | 28 | { E. C. Fahmy, South China.
G. R. Scraff, Scotland. |
| 15 | { A. M. Ferrie, Aberdeen.
Atholl Robertson, Perthshire.
M. D. Thakore, India. | 30 | { R. N. MacKenzie, Argentine.
Adam Prentice, Prestonpans.
J. C. Preston, Ireland. |
| 18 | { D. G. Duff, Wigan.
A. G. Anderson, Bonar Bridge.
Alexander Cleland, Edinburgh.
Godfrey Paris, Suez. | 33 | { W. A. Sinclair, Kirkwall.
Frank Holmes, Barrow-in-Furness. |
| 22 | S. D. Nurse, Demerara. | 34 | { R. L. Impey, Cape Colony.
John Sellar, Portobello. |

*Summer 1914.***PRACTICAL MATERIA MEDICA.***First-Class Honours.*

- | | | | | |
|---|---------------------------|-----------------|---|---|
| 1 | Robert Wallace, Bel- | Medals
Lists | 4 | { Robert Leslie Stewart, Edin.
David John Micah, Wales. |
| 2 | Joseph Edelstein, Rus- | | 6 | { John Gibson Allan, Whitburn.
J. M. MacPherson, Scotland. |
| 3 | Donald Warren, Edinburgh. | | | |

Second-Class Honours.

- | | | | |
|----|--|----|--|
| 8 | Reginald N. Johnson, South Africa. | 22 | { John Allison, Kettering.
Alex. Y. Cochrane, Bo'ness.
James Stewart Mann, Oban. |
| 9 | { J. Arthur Hadfield, Loyalty Islands.
Spearman C. Swinburne, England. | 25 | { Josiah W. C. Fairweather, Maryton.
James P. D. MacLagan, Edin. |
| 11 | E. O. A. Singer, Vienna. | | { J. B. Liggins, New Zealand. |
| 12 | { J. H. Kerr, Scotland.
David William M ^c Lean, Annan.
Thomas Ernest Hastings, Londonderry. | 27 | { John Charles M ^c Cartney, Ireland.
William C. Craig, Lockerbie. |
| 14 | { J. L. Lamont, Canada.
Joseph P. Leckie, Scotland. | 29 | { Francis R. Cripps, Scotland.
Alexander M. Simson, Edin.
Daniel Chanis, Panama. |
| 17 | Gordon Bruce Flint, Australia. | 32 | { K. M. Dey, India
J. J. van Niekerk, S. Africa. |
| 18 | John C. Bedwell, England. | | { J. W. R. Sutherland, Edin. |
| 19 | George James Alexander, Edin. | 36 | Henry N. Daniel, England. |
| 20 | { Robt. Edward Burns, Australia.
F. M. Stewart, Scotland. | | |

THOMAS R. FRASER, Kt., M.D., *Professor.*

EXPERIMENTAL PHARMACOLOGY.*First-Class Honours.*

John L. Owen, Australia.
B. J. Rylie, Fraserburgh.

J. Balfour Kirk, Falkirk.

W. C. SILLAR, M.D., B.Sc., *Lecturer.*

*Summer 1914.***FORENSIC MEDICINE.***First-Class Honours.*

1	W. J. Purdy.	Medicine	I I.	E. Lewis Galgut.
2	J. E. McCartney.			James Lawson.
3	James W. Potter.			John Rodger.
4	Edward Fullerton.			F. M. Halley.
5	W. A. Cochrane.			S. H. Stewart.
6	John A. Henderson.			R. J. McDowell.
7	G. Marshall Findlay.			A. P. Meiring.
8	J. M. Smith.			James M. Anderson.
	Edward Law.			A. L. McIlwaine.
	John G. Loudon.			Arnold H. Shennan.

Second-Class Honours.

21	Robert D. Stewart.	Medicine	44	Maurice E. Willcock.
	R. F. F. Newberry.			J. W. Watthews.
	W. K. McIntyre.			M. F. Meiring.
	James Hepburn.			Harold H. Sim.
24	Andrew W. Forrest, M.A.			Ian A. Clarke.
	J. G. Dobson, B.Sc.			Thomas Yuille Barclay.
	F. W. W. Baillie.			Cedric Russell.
27	Frederick A. Anderson.			50 Simon A. Kuny.
	G. M. Scott.			Robert M. Hume.
29	Norman Reis.			53 J. W. Riddoch.
	Duncan Malloch.			Isodore J. Black.
	Robert Lawson.			55 J. W. G. Riddel.
	Oswald D. Jarvis.			W. P. Postlethwaite.
32	H. A. Hewat.			Harry Lewis.
	Duller S. Falconer.			58 L. H. Werden.
	Arthur G. Clark.			T. J. Lloyd.
	Ronald N. Pheese.			John R. Cerlius.
37	J. W. Malcolm.			George H. Sinclair.
	David Dunlop.			Owen D. Price.
	H. J. Bruwer.			61 William Goldie.
	James Walker.			M. Cooper.
41	Irvine McDowall.			John S. Armstrong.
	P. W. Lam.			

- 66 { S. N. Mitra.
Mungo M'Kerrow.
Paul M. Little.
E. B. Israel.
C. H. H. Coetzee.
A. J. Desmond Rowan.
John Owen Reid.
Patrick C. Macrae.
71 { N. B. Laughton.
C. Davies Jones.
R. B. Boston.
77 { Murdo Stewart.
Thomas L. Clark.
79 James Brown.

- 80 { James Wishart.
W. K. O. Shepherd.
C. Reznikow.
J. E. Hurworth.
M. H. Mikhan.
85 { Herbert John Davidson.
Ambat Ravunni.
87 A. J. Lim.
88 { T. M. J. Stewart.
J. J. Molyneux.
Fred. Carlyle Johnston.
90 { Graham Johnston.
Henry F. Ferguson.
William Shanks.

HARVEY LITTLEJOHN, M.A., M.B., B.Sc., *Professor.*

Summer 1914.

PUBLIC HEALTH.

First-Class Honours.

- | | | |
|-----------------------------|---------------------|--------------------------------|
| 1 James M. Anderson, Jed- | } <i>Medallists</i> | 5 James M. Wishart, Kirkcaldy. |
| 2 Dallas S. Falconer, Edin. | | 6 { R. B. Boston, Berwick. |
| 3 G. Marshall Findlay, War- | | John G. Loudon, Dunfermline. |
| wickshire. | | 8 { James Brown, Airdrie. |
| 4 William Goldie, Edin. | | Irvine M'Dowall, West Indies. |

Second-Class Honours.

- | | | |
|---|---|--|
| 10 J. Hewat, Riddel, Bristol. | } | E. L. Galgut, South Africa. |
| 11 { R. J. M'Dowall, Wigtownshire.
D. Malloch, Edinburgh.
G. M. Scott, Dumfriesshire. | | 28 { R. Lawson, Scotland.
A. J. Lim, Java.
A. H. Shennan.
J. M. Smith, Edinburgh.
W. A. Cochrane, Edinburgh.
E. Fullerton, Ireland. |
| 14 J. W. Watthews, Holmfirth. | | 33 { Simon A. Kuny, South Africa.
Patrick C. MacRae, Inverness. |
| 15 { James Lawson, Fife.
J. E. M'Cartney, Warwick.
Samuel H. Stewart, Ireland. | | 37 Robert B. Stewart, Glasgow. |
| 18 { Edward Law, China.
M. F. Meiring, South Africa.
Andrew W. Forrest, M.A.,
West Calder. | | 38 { John S. Armstrong, Northal-
lerton.
Harry Lewis, South Africa. |
| 20 { Norman Reis, Scotland.
Maurice E. Willcock, Lerwick.
John R. Crolus, Hong-Kong.
John G. Dobson, Scotland. | | 40 { S. N. Mitra, India.
Frederick W. Baillie, Jamaica.
C. Davis-Jones, Wales.
David Dunlop, Ireland. |
| 23 { Oswald D. Jarvis, Forfar.
J. J. Molyneux, South Africa.
John Rodger, Ayrshire. | | 41 { James E. Hurworth, S. Africa.
Harold H. Lim, Java.
J. W. Riddoch, Edinburgh. |

- | | | | | | |
|----|-------------------------------------|--|----|-------------------------------------|----------------------------|
| 47 | T. C. Morton. | | | | J. E. Chow, South America. |
| | { Arthur G. Clark, New Zealand. | | | | W. M. Christie, Palestine. |
| 48 | { Frederick J. Johnstone, Scotland. | | 71 | { R. M'Kinlay, Ireland. | |
| | { L. H. Werden, Canada. | | | { W. J. Purdy, England. | |
| | { Thomas L. Clark, Ayrshire. | | | { G. H. Sinclair, Caithness. | |
| 51 | { John A. Henderson, Shetland. | | 77 | { James Walker, Airdrie. | |
| | { James W. Potter, Kirkliston. | | | { Ian A. Clarke, Scotland. | |
| | { M. W. Danzig, South Africa. | | | { M. Cooper, South Africa. | |
| | { H. A. Hewat, Edinburgh. | | | { Isidore J. Block, South Africa. | |
| | { P. W. Lam, Hong-Kong. | | | { A. F. Campbell, Edinburgh. | |
| | { N. B. Laughton, Caithness. | | 79 | { F. J. ng Fook, South America. | |
| 54 | { G. C. M'Ewan, Prestonpans. | | | { James Hepburn, Dunfermline. | |
| | { J. M. Orme, Helensburgh. | | | { J. O. Reid, Dundee. | |
| | { T. Morton Stewart, Mid-Lothian. | | | { J. D. Whitfield, China. | |
| | { C. J. Young, Shetland. | | | { J. F. M. Campbell, Kirkcudbright. | |
| | { Frederick A. Anderson, Stranraer. | | | { Edward S. Hawkes, Dorset. | |
| 62 | { F. M. Halley, England. | | 85 | { E. B. Israel. | |
| | { A. P. Meiring, South Africa. | | | { T. Janakiramiah, India. | |
| | { C. H. Newton, Scotland. | | | { Graham S. Johnston, Fifeshire. | |
| | { Murdo Stewart, Skye. | | | { John M'Garrity, Leadhills. | |
| | { Eric Jamieson, Nairn. | | | { W. K. M'Intyre, Tasmania. | |
| 67 | { Owen D. Price, Edinburgh. | | | { R. W. Miller, Edinburgh. | |
| | { C. J. Stockley, Sheffield. | | | { Ronald N. Phease, Edinburgh. | |
| | { B. P. Varma, India. | | | { W. B. Postlethwaite, Leeds. | |

C. HUNTER STEWART, D.Sc., M.B., *Professor.*

MEDICINE.

Senior Division.

First-Class Honours.

- | | | | |
|---|--|---|----------------------|
| 1 | R. C. L. Batchelor (<i>Medallist</i>). | 3 | { W. E. Home Hay. |
| 2 | G. F. Heathcote. | | { F. G. MacNaughton. |

Junior Division.

First-Class Honours.

- | | | | | |
|---|---------------------------|-------------------|---|-------------------------------|
| 1 | J. E. M'Cartney, Warwick. | } <i>Medicine</i> | + | { F. W. W. Baillie, Jamaica. |
| 2 | J. M. Anderson, Scotland. | | | { W. A. Cochrane, Edinburgh. |
| 3 | J. M. Wishart, Kirkcaldy. | | | { A. J. Lim, Semarang (Java). |
| | | | | { J. G. Loudon, Dunfermline. |
| | | | | { J. W. Potter, Kirkliston. |
| | | | | { J. W. H. Riddell, Bristol. |

- | | | | |
|----|--|----|---|
| 10 | { A. F. Campbell, Edinburgh.
J. Roger, Glenbuck, Ayrshire.
S. N. Stewart, Ireland.
A. G. Clark, New Zealand.
Ian A. Clarke, Scotland.
A. D. Jarvis, Forfar. | 20 | { D. S. Falconer, Edinburgh.
F. M. Halley, Middlesex.
E. Law, Hong-Kong.
H. H. Lim, Semarang (Java).
R. J. S. M'Dowall, Wigtownshire. |
| 13 | { J. M'Dowall, St Vincent,
B.W.I.
James Walker, Airdrie. | | { G. C. M'Ewan, Prestonpans.
J. W. Malcolm, Mauchline.
A. J. Desmond Rowan,
Australia. |
| 18 | N. B. Loughton, Caithness. | | J. M. Smith, Edinburgh. |
| 19 | R. Lawson. | | |

Second-Class Honours.

- | | | | |
|----|---|----|--|
| 29 | T. Y. Barkley, Stranraer. | 61 | { W. Goldie, Granton.
R. M. Hume, Edinburgh. |
| | J. G. Dobson, Scotland. | | { A. P. Meirung, South Africa.
J. S. Armstrong, Northallerton. |
| 30 | { A. W. Forrest, West Calder.
W. J. Purdy, England.
T. M. J. Stewart, Mid-Lothian. | | { T. H. S. Bell, Dunfermline. |
| | E. Fullarton, Ireland. | 64 | { T. L. Clark, Sorn.
A. C. Murray, Birnam,
Scotland. |
| 34 | { P. M. Lam, Hong-Kong.
Murdo Stewart, Portree, Isle
of Skye.
R. B. Stewart, Glasgow.
J. D. Whitefield, China.
R. B. Boston, Berwick-on-
Tweed.
D. Dunlop, Co. Antrim,
Ireland. | | { P. M. Little, Pontypridd, South
Wales. |
| 39 | { J. Hepburn, Dunfermline.
J. E. Hurworth, Cape Colony.
G. M. Scott, Dumfriesshire.
E. Jamieson, Leven.
G. S. Johnstone, Fifeshire. | 68 | { J. M'Garrity, Leadhills.
M. F. Meirung, South Africa. |
| 45 | { James Ritchie, New Zealand.
C. J. Young, Shetland. | 71 | { J. S. Rankin, Scotland. |
| 48 | { E. B. Israel.
W. M. Christie, Syria.
F. J. C. Johnstone, Scotland.
R. F. T. Newberry, Italy. | 72 | { E. L. Galgut, Transvaal.
C. Davies Jones, Carnarvon.
W. Reis, Scotland. |
| 49 | { J. W. Riddoch, Edinburgh.
W. E. Thompson, Canada.
B. P. Varma, India.
J. E. Chow, S. America.
J. P. K. Ghosh, India.
J. M'Callum Orme, Helens-
burgh. | 75 | { C. C. Bondin, Edinburgh.
T. J. Lloyd, Tregaron.
W. K. M'Intyre, Tasmania. |
| | | 78 | { J. F. Ng-a-Fook.
C. F. MacIachlan, Scotland.
J. G. Lyon Brown, Scotland.
J. E. Larche, Mauritius. |
| 55 | { G. H. Sinclair, Caithness.
G. M. Torrance, Scotland.
A. E. P. Vanier, British
Guiana. | 80 | { S. N. Mitra, India.
C. H. Newton, Scotland.
T. Janakerimiah, India. |
| | | 84 | { C. J. Stockley, Sheffield.
M. E. Wilcock, Lerwick. |
| | | 87 | { R. B. Eadie, England.
A. M. Gosh, Dacca, India. |
| | | 88 | { C. Resnekof, Russia.
W. Williams, South Wales. |

Present at two examinations.—*Second-Class Honours*: James Lawson,

Scotland; M. McCallum, Scotland; J. A. Henderson, Shetland; J. McQueen, Ross-shire; P. L. Kock, S. Africa; A. L. McIlwaine, Melbourne; M. H. Alikhan, P. C. M'Rae, Inverness.

JOHN WYLLIE, M.D., LL.D., *Professor.*

MIDWIFERY AND GYNECOLOGY.

First-Class Honours.

- | | | | | |
|---|---|-----------------------------------|---|-------------------------------|
| 1 | W. A. Cochrane, Edin. | } <i>Medallists</i> | 7 | James M. Anderson. |
| 2 | James Ritchie, New Zealand. | | | Fred. W. W. Baillie, Jamaica. |
| 3 | { J. E. M'Cartney, Warwick. | | | John G. Loudon, Dunfermline. |
| | { A. J. Desmond Rowan, Australia. | | | W. J. Purdy, England. |
| 5 | { Andrew W. Forrest, M.A., West Calder. | | | A. J. Lim. |
| | { Oswald D. Jarvis, Forfar. | 11 { Irvine M'Dowall, St Vincent. | | |
| | | | | James W. Potter, Kirkliston. |
| | | | | J. M. Smith, Edinburgh. |

Second-Class Honours.

- | | | | |
|----|-----------------------------------|----|--|
| 15 | Harry Lewis, South Africa. | 40 | { E. B. Israël, South Africa. |
| | { Harold H. Lim. | | { A. P. Meiring, South Africa. |
| 16 | R. J. S. M'Dowall, Wigtown-shire. | 43 | { Robert Bell Stuart, Eskbank. |
| | { Arnold H. Shennan, Edin. | | { Mesroub Barseghian, Persia. |
| 19 | { Edward Fullerton, Ireland. | 43 | { Arthur G. Clark, New Zealand. |
| | { Francis M. Halley, Middlesex. | | { Robert Marshall Hume, Edin. |
| 23 | { H. A. Hewat, Edinburgh. | 52 | { Patrick C. MacRae, Inverness. |
| | { G. M. Scott, Ruthwell. | | { J. W. Matthews, Holmfirth. |
| 25 | { J. W. Malcolm, Mauchline. | 52 | { M. F. Meiring, South Africa. |
| | { John Rodger, Glenbuck. | | { T. C. Morton, India. |
| 26 | { David Dunlop, Ireland. | 52 | { James W. Wishart, Kirkcaldy. |
| | { William Goldie, Granton. | | { C. J. Young, Shetland. |
| 29 | { Duncan Malloch, Edinburgh. | 52 | { Alexander Fraser Campbell, Edinburgh |
| | { James Walker, Airdrie. | | { W. Melville Christie, Palestine. |
| 30 | { Prim Nath Berry, India. | 52 | { O. Davies-Jones, Wales. |
| | { F. J. Ng-a-Fook, South America. | | { Dallas S. Falconer, Edinburgh. |
| 33 | { Simon A. Kuny, South Africa. | 52 | { C. Resnekow, Russia. |
| | { George H. Sinclair, Caithness. | | { T. Morton J. Stewart, Loanhead. |
| 33 | { R. B. Boston, Berwick. | 59 | { M. E. Willcock. |
| | { Edward Law. | | { Ian A. Clarke, Scotland. |
| 33 | { R. F. T. Newbery, San Remo. | 59 | { John G. Dobson, Scotland. |
| | { C. H. Newton, Edinburgh. | | { Eric L. Mackenzie. |
| 33 | { J. W. Riddoch, Edinburgh. | 62 | { Isidore J. Block. |
| | { Murdo Stewart, Edinburgh. | | { Thomas Lindsay Clark, Ayrshire. |
| | { Samuel H. Stewart, Ireland. | | |

64	{	Ninian E. M. Home Hay,	81	{	John S. Armstrong, North-
		Scotland.			allerton.
		James Hepburn.			Thomas Yuille Barkley,
		N. B. Laughton, Caithness.			Stranraer.
		Robert Lawson, Scotland.			J. Etienne Larché.
71	{	Ronald W. Phease, Edinburgh.	84	{	L. H. Werden, Toronto.
		W. F. Thompson, Canada.			Jerry Ewing Chow, South
		B. P. Varma, India.			America.
		Frederick A. Anderson.			Henry Jackson, Lancashire.
		E. L. Galgut, South Africa.			85 { John D. M'Garrity, Leadhills.
77	{	James E. Hurworth.	89	{	Charles F. Maclachlan,
		Graham S. Johnston, Leven.			Lockerbie.
		F. J. Lloyd.			Owen D. Price, Edinburgh.
		A. E. P. Vanier, British			Norman Reis, Scotland.
		Guiana.			James Brown.
91	{	T. H. Stanley Bell, Dun-	96	{	John A. C. Guy, Edinburgh.
		fermline.			Basil Haskins, New Zealand.
		T. Janakiramiah, India.			Samuel Schwars, Russia.
		P. W. Lam.			G. M. Torrance, Scotland.
		A. L. M'Ilwaine, Australia.			John Macqueen.

The following gentlemen were present at two examinations only.—
First-Class Honours : J. W. G. Hewat Riddel, Clifton. *Second-Class Honours* : R. W. N. Miller, Edinburgh; John A. Henderson, Shetland; Frederick J. C. Johnstone, Scotland; W. B. Postlethwaite, Leeds; Peter Louis Kock.

Summer 1914.

OBSTETRICAL AND GYNECOLOGICAL OPERATIONS.

First-Class Honours.

- 1 R. C. L. Batchelor (*Medallist*). | 2 Jas. Ritchie.

Second-Class Honours.

- | | | | |
|---|-------------------------|----|---------------------|
| 3 | H. R. Friedrichs. | 10 | { George Millar. |
| 4 | { T. M. Davie. | 13 | { J. Campbell Neil. |
| | { Sidney Huddleston. | | { G. S. Pirie. |
| | { J. J. Ross Mackenzie. | | { R. Power. |
| 8 | { John M. Pringle. | 14 | { C. W. Aikman. |
| | { Joseph Dunlop. | | { J. S. Taylor. |
| | { D. G. Wishart. | | |

J. HALLIDAY CROOM, Kt., M.D., *Professor*.
A. H. F. BARBOUR, M.D., *Lecturer*.

SURGERY.

Seniors.

First-Class Honours.

- | | | | |
|---|----------------------------|---|--------------------------|
| 1 | R. C. L. Batchelor, Dundee | 3 | G. Millar, Edinburgh. |
| | (<i>Medallist</i>). | 4 | J. S. Taylor, Edinburgh. |
| 2 | J. Biggam, Stranraer. | | |

Second-Class Honours.

- | | | | |
|---|------------------------------|----|------------------------------|
| 5 | L. Lappin, South Africa. | 9 | T. A. Fuller, South Africa. |
| 6 | B. E. Wright, New Zealand. | 10 | E. T. Solomon, South Africa. |
| 7 | P. W. J. Keet, South Africa. | 11 | M. Cooper, South Africa. |
| 8 | H. C. Robins, Jamaica. | | |

Juniors.*First-Class Honours.*

- | | | | |
|---|--|---|---------------------------|
| 1 | A. J. Caird, Perth. | 5 | J. M. Watt, South Africa. |
| 2 | N. Giblin, Tasmania. | 6 | B. J. Ryrie, Montrose. |
| 3 | { R. B. Buchanan,
Londonerry.
J. C. Morris, Edinburgh. } | 7 | N. Macleod, Edinburgh. |

Second-Class Honours.

- | | | | |
|----|--|----|---|
| 8 | A. R. Hudson, Billingham. | | { G. Scarff, Scotland. |
| 9 | { J. J. B. Edmond, Wanlock-
head. | 40 | { R. R. S. Weatherson, Cold-
stream. |
| 11 | { J. E. Phillips, Barbados. | 42 | { G. H. Barry, Lancaster. |
| 12 | { D. L. Baxter, Greenock. | | { W. Haig Ferguson, Edinburgh. |
| | { A. H. de W. Budler, South
Africa. | | { D. Wilson, Edinburgh. |
| 13 | { F. Holmes, Barrow-in-Furness. | 45 | { P. C. Davie, New Zealand. |
| | { H. B. Kirk, Edinburgh. | | { M. Foster, Scotland. |
| 15 | { D. G. Duff, Wigan. | 47 | { E. C. Fahmy, South China. |
| | { A. C. Kirton, Barbados. | 49 | { R. A. Warters, England. |
| | { J. Bennet, Ratho. | 49 | { A. J. Ferguson, Innerleithen. |
| 17 | { W. Brownlie, New Zealand. | 50 | { W. N. Greer, Ballyshannon. |
| | { C. E. Hill, Nottingham. | | { J. Manuel, Hawick. |
| 20 | A. V. Dill, Scotland. | 53 | { W. T. Patterson, India. |
| 21 | H. C. Elder, Dundee. | 53 | T. Crisp, New South Wales. |
| 22 | J. Milne, Forfar. | 54 | A. M. Ferrie, Aberdeen. |
| 23 | { Ian Mackenzie, Stornoway. | 55 | { W. W. Brown, Falkirk. |
| | { G. Morris, Edinburgh. | 56 | { K. P. Brown, Edinburgh. |
| 25 | { R. D. Cameron, Inverness-
shire. | | { J. S. Galvin, India. |
| | { J. L. Owen, Melbourne. | | { J. J. Shannon, Ireland. |
| 27 | J. Dickson, Scotland. | 59 | { W. Waddell, South Africa. |
| 28 | A. K. Gibson, Edinburgh. | | { C. W. Ng-a-Yow, S. America. |
| 29 | { H. W. Burne, India. | 61 | { J. M. Johnstone, Selkirk. |
| | { E. D. Söderstrom, Sweden. | | { M. D. Thakore, India. |
| | { J. A. Crawford, Fauldhouse. | 63 | W. Owen Morris, St Asaph. |
| 31 | { C. T. I. Clarke, South Africa. | 64 | P. V. Ramanamurty, India. |
| | { J. B. Kirk, Falkirk. | 65 | J. A. Mackenzie, Scotland. |
| | { W. K. M'Intyre, Tasmania. | 66 | { H. Moore, Ayrshire. |
| 35 | K. S. Ray, Calcutta. | | { C. Milne, Bath. |
| 36 | C. W. Stump, South Australia. | 68 | { F. W. Clark, Maryport. |
| | { T. F. Corkill, New Zealand. | | { Adam Prentice, Prestonpans. |
| 37 | { H. J. Davidson, Melrose. | 70 | { J. de V. Meiring, South Africa. |
| | { N. H. Smith, Jersey. | | |

71	{	C. B. C. Anderson, Rawal Pindi.	75	{	C. M'Donald, Scotland.
		G. H. Fraser, Leith.			W. Richards, South Wales.
		A. B. Grant, Inverness.			L. W. Innes, Mauritius.
74	{	E. G. M. Gilchrist, Scotland.	77	{	E. G. Pyott, South Africa.
					P. A. Rostant, Trinidad.

Unavoidably absent from one examination.—*Second-Class Honours* :
W. L. Hunter, South Africa.

PRACTICAL SURGERY.

Seniors.

J. S. Taylor (<i>Medallist</i>).	F. W. J. Keet, South Africa.
R. C. L. Batchelor, Dundee.	G. Millar, Edinburgh.
JAMES M. GRAHAM, M.B., Ch.B., F.R.C.S., <i>Demonstrator</i> .	

Juniors.

J. L. Owen, Melbourne (<i>Medallist</i>).	J. M. Johnstone, Selkirk.
W. W. Brown, Falkirk.	B. J. Ryrie, Montrose.
A. J. Caird, Perth.	G. Scarff, Scotland.
J. A. Crawford, Fauldhouse.	E. D. Söderstrom, Sweden.
D. G. Duff, Wigan.	J. M. Watt, South Africa.

PIRIE WATSON, M.A., Ch.M., F.R.C.S.,
R. CHARLES ALEXANDER, M.A., M.B., Ch.B., F.R.C.S.,
Demonstrators.

ALEXIS THOMSON, M.D., F.R.C.S., *Professor*.

CLINICAL SURGERY.

Autumn Term.

First-Class Honours.

1	{	John M. Pringle, Scotland (<i>Medallist</i>).	2	{	R. C. L. Batchelor, Scotland.
					W. T. Brown, England.
					A. J. Caird, Scotland.
			5		J. M. Watt, Cape Colony.

Second-Class Honours.

6	R. O. C. Thomson, Scotland.	14	{	A. R. Hamilton, Ireland.
7	{	14	{	Christopher Atkinson, Ireland.
	H. A. Rippiner, England.			T. F. Corkell, New Zealand.
	George Millar, Scotland.	16	{	G. S. Pirie, Cape Colony.
9	William Murdoch, Scotland.			G. D. Fairley, Scotland.
10	D. G. Wishart, Scotland.	18		C. G. Lambie, Trinidad,
	{			B.W.I.
	W. M. Dickson, Scotland.			J. B. Kirk, Scotland.
11	{			
	C. C. Philip, Scotland.			
13	A. A. Watson, England.	20		

Spring Term.*First-Class Honours.*

- 1 Andrew J. Caird, Perth (
- Medallist*
-).

Second-Class Honours.

- | | | | |
|---|--------------------------------|---|---------------------------------|
| 2 | A. V. Dill, Scotland. | 5 | C. P. M. Joubert, South Africa. |
| 3 | R. D. Cameron, Inverness. | 6 | Atholl Robertson, Perthshire. |
| 4 | Thos. F. Corkell, New Zealand. | | |

Summer Term.*Second-Class Honours.*

- | | | | |
|---|------------------------|---|--------------------|
| 1 | { George A. Macdonald. | 6 | G. M. Scott. |
| | { J. M. Smith. | 7 | W. K. Chalmers. |
| | { Dallas S. Falconer. | 8 | N. P. R. Galloway. |
| 3 | { R. T. S. M'Dowell. | | |
| | { Mungo M'Kerrow. | | |

F. M. CAIRD, M.B., *Professor.***DISEASES OF CHILDREN.****Autumn Term.***First-Class Honours.*

- 1 Helen M'Dougal (
- Medallist*
-). | 2 R. Mary Barclay. | 3 J. J. Healy.

Second-Class Honours.

- 4 H. R. Friedrichs. | 5 Helen G. Hewat.

Spring Term.*First-Class Honours.*

- | | | | |
|---|--|---|----------------------|
| 1 | Rob. O. C. Thomson (<i>Medallist</i>). | 3 | { H. E. Collier. |
| | | | { Gertrude Herzfeld. |
| 2 | Janet P. Walton. | 5 | { G. M. Scott. |
| | | | { J. M. Smith. |

Second-Class Honours.

- | | | | |
|----|-----------------------|----|-----------------------|
| 7 | D. Malloch. | 15 | { R. B. Boston. |
| 8 | { T. H. Stanley Bell. | | { Dallas E. Falconer. |
| | { H. A. Hewat. | 17 | { R. J. S. M'Dowall. |
| 10 | T. M. Davie. | | { Alex. J. Taylor. |
| | { A. W. Forrest. | 19 | James Ritchie. |
| 11 | { Wm. Murdoch. | 20 | Jean M. M'Minn. |
| | { James M. Wishart. | 21 | F. W. Heyworth. |
| 14 | H. A. Rippiner. | 22 | Elsie Fowler. |

JOHN THOMSON, M.D., *Lecturer.*

*Summer 1914.***MENTAL DISEASES.***First-Class Honours.*

1	{ W. Brownlie. J. M'Dowall.	<i>Medallists</i>	16	{ J. W. Potter. J. G. Dobson.
3	{ J. W. Riddoch. J. Walker.			{ J. B. Kirk. T. F. Corkill.
5	S. H. Stewart.		20	{ George Morris. John Dick.
6	J. G. Loudon.			{ G. S. Seah. J. W. G. H. Riddel.
7	{ J. M. Halley. K. S. Ray.		23	{ N. H. Smith. P. W. Edwards.
9	{ J. M. Watt. H. C. Elder.			{ J. C. Norris. W. K. M'Intyre.
11	J. Crisp.		27	{ P. C. Davie. H. J. Caird.
12	O. D. Jarvis.			{ R. M. Hume. C. J. Young.
13	{ J. A. Henderson. H. B. Kirk.			
15	A. J. Lim.			

Second-Class Honours.

32	{ C. W. Ng Yow. L. H. Werden.	58	{ S. A. Kuny. T. L. Clark.
	{ W. Waddell. J. M. Johnstone.		{ J. Milne. F. W. W. Baillie.
34	{ K. Gillies. T. Y. Barkley.	61	{ P. A. Rostant. R. Lawson.
	{ J. M. Anderson. J. E. M'Cartney.		{ S. N. Mitra. W. C. Clark.
39	{ W. Goldie. A. V. Dill.		{ J. D. Whitfield. A. M. Ghosh.
41	{ J. A. Crawford. H. J. Davidson.	66	{ K. P. Brown. A. F. Campbell.
	{ J. S. Galvin. R. J. M. Horne.		{ A. G. Clark. J. A. Clarke.
43	{ L. W. Innes. W. P. Pemberthy.	72	{ J. E. Chow. E. S. Galgut.
	{ E. A. Mills. J. E. Larché.	74	{ G. M. Findlay. C. H. H. Coetzee.
49	{ C. I. J. Clarke. H. H. Lim.	75	{ A. Ravinoni. N. B. Laughton.
51	{ A. L. M'Ilwaine. G. H. Nixey.	78	{ J. M'Garrity. R. F. T. Newbery.
53	{ J. Manuel. E. Fullerton.		{ W. E. Thompson. A. H. Chü.
54	{ W. A. Cochrane. J. Hepburn.	81	{ M. Foster. M. Stewart.
56		83	{ R. A. Warters. J. W. Watthews.

86	{ J. W. Malcolm.	98	{ R. C. Aitchison.
	{ O. D. Price.		{ J. G. L. Brown.
	{ J. J. Shannon.		{ F. Y. Ng Fook.
	{ G. H. Sinclair.		{ F. J. Hauptfleisch.
	{ C. W. Stump.	101	{ A. J. D. Rowan.
93	{ R. R. Weatherson.		{ S. N. Seal.
	{ A. R. Hudson.	104	{ J. M. Wishart.
	{ A. N. Homewood.		{ T. M. J. Stewart.
	{ J. W. Simpson.		{ K. C. Ferguson.
	{ W. G. Thomson.		{ W. Kantor.
96	{ M. E. Willcock.	108	{ D. Dunlop.
	{ T. J. Sumner.		

GEORGE M. ROBERTSON, M.D., *Lecturer.*

DISEASES OF THE EYE.

Autumn Term.

First-Class Honours.

1	R. C. L. Batchelor, Dundee	4	C. P. M. Joubert, South Africa.
2	A. J. Lim, Java.	5	J. K. F. Macleod, Boddam.
3	H. A. Rippiner, Market Harborough.		

Second-Class Honours.

6	Cedric Russell.	18	{ Edward Mansfield, Australia.
7	F. A. Anderson, Stranraer.		{ Joseph K. Venables, New Zealand.
8	Duncan Malloch, Edinburgh.	20	{ F. J. Ng-a-Fook, S. America.
9	{ J. W. Matthews.		{ P. W. J. Keet.
11	{ James Brown, Airdrie.	22	{ J. McCallum Orme.
	{ Harold H. Lim, Java.		{ G. A. G. Macdonald.
13	{ Norman Reis.	24	{ F. O. Taylor.
	{ Jerry E. Chow, S. America.		{ E. W. Louw, South Africa.
	{ Edward S. Hawkes, Poole.	26	{ P. W. Carruthers.
16	B. P. Varma, India.		{ M. H. Alikhan, India.
17	John G. Dobson, Scotland.	27	{ A. L. McIlwaine, Melbourne.
17	H. Sinderson, England.		

Spring Term.

First-Class Honours.

1	John M. Pringle (<i>Medallist</i>).	2	Edward Fullerton.
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Second-Class Honours.

3	Thomas Lindsay Clark.	11	Samuel H. Stewart.
4	C. G. Lambie.	12	Douglas C. M. Page.
5	I. Janakiramiah.	13	Edward Law.
6	A. B. Theron.	14	Samuel Schwars.
7	J. Campbell Neil.	15	Ewen G. M. Gilchrist.
8	Edward T. Solomon.	16	E. Louis Galgut.
9	B. C. Haller.	17	Charles G. Skinner.
10	D. G. Wishart.		

Summer Term.*First-Class Honours.*

1	Harold P. T. Haddow, Birmingham (<i>Medallist</i>).	3	Thomas J. Flannery, Galway.
2	W. F. Hare, Kilmarnock.	4	R. C. Rogers.
		5	W. K. Chalmers.

Second-Class Honours.

6	A. W. Forrest, Scotland.	7	John Dick, Scotland.
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WILLIAM GEORGE SYM, M.D., *Lecturer.*

DISEASES OF THE LARYNX, EAR AND NOSE.**Autumn Term.**

1	J. M. Smith.	} <i>Medal-</i>	13	J. H. Stanley Bell.
2	Dallas S. Falconer.		14	E. S. Hawkes.
3	{ A. W. Forrest.	} <i>lists</i>	15	R. H. Miller.
3	{ W. J. Purdy.		16	B. O. Haller.
5	R. J. S. M'Dowall.		17	{ R. B. Boston.
6	W. Neville Christie.		17	{ A. C. Murray.
7	G. M. Scott.		19	T. J. W. Sveinbjörnsson.
8	A. H. Shennan.		20	B. B. Gadgil.
9	James Ritchie.		21	Irvine M'Dowall.
10	M. Barseghian.		22	J. A. Cooper Williams.
11	C. W. Aikman.		23	H. C. Robins.
12	M. M'Kerrow.			

Spring Term.

1	O. D. Jarvis (<i>Medallist</i>).	7	T. Morton J. Stewart.
2	{ E. J. Blair.	8	W. K. Chalmers.
2	{ J. W. G. Hewat Riddel.	9	{ James Hepburn.
4	J. E. M'Cartney.	9	{ George A. Levack.
5	F. J. Ng-a-Fook.	11	John G. Loudon.
6	Harry Lewis.	12	Harold C. Fox.

Summer Term.*First-Class Honours.*

- | | | | |
|---|------------------------------------|---|-----------------|
| 1 | R. C. Rogers (<i>Medallist</i>). | 3 | J. W. Watthews. |
| 2 | D. Malloch. | | |

Second-Class Honours.

4 J. Brown.

A. LOGAN TURNER, M.D., *Lecturer.***DISEASES OF THE SKIN.****Autumn Term.***First-Class Honours.*

- | | | | |
|---|--------------------------|---|----------------------------|
| 1 | J. E. McCartney, England | 3 | C. G. Lambie, Trinidad. |
| | (<i>Medallist</i>). | 4 | James W. Potter, Scotland. |
| 2 | Edward Low, Hong-Kong. | | |

Second-Class Honours.

- | | | | |
|----|-------------------------------|----|-----------------------------|
| 5 | Ian A. Clarke, Scotland. | 18 | { P. N. Berry, India. |
| 6 | F. J. C. Johnstone, Scotland. | | { A. S. Taylor, Ireland. |
| 7 | { James Hepburn, Scotland. | 20 | P. C. MacRae, Scotland. |
| | { N. B. Loughton, Scotland. | 21 | E. L. Galgut, Transvaal. |
| 9 | C. Davis Jones, Camaman. | 22 | W. Shanks, Scotland. |
| 10 | John Loudon, Scotland. | 23 | O. D. Jarvis, Scotland. |
| | { R. M. Hume, Scotland. | 24 | H. Lewis, South Africa. |
| 11 | { F. E. Tillyard, England. | 25 | Bertram Shires, England. |
| 13 | James Lawson, Scotland. | 26 | C. Resnekov, Russia. |
| | { Edward Fullerton, Ireland. | 27 | A. N. Homewood, Canada. |
| 14 | { S. H. Stewart, Ireland. | 28 | J. Campbell Neil, Scotland. |
| 16 | James Wishart, Scotland. | 29 | L. H. Werden, Canada. |
| 17 | C. J. Young, Scotland. | | |

Spring Term.*First-Class Honours.*

- | | | | |
|---|-------------------------------|---|--------------------------------|
| 1 | James Walker, Scotland | | { Angus Cameron, Scotland. |
| | (<i>Medallist</i>). | 6 | { R. Chalmers Aitchison, Scot- |
| 2 | Irvine M'Dowall, West Indies. | | land. |
| | { W. A. Cochrane, Scotland. | | { James Anderson, Scotland. |
| 3 | { John Rodger, Scotland. | 9 | Arthur Clark, New Zealand. |
| 5 | W. J. Purdy, England. | | |

Second-Class Honours.

- | | | | |
|----|----------------------------|----|-------------------------------|
| 10 | F. W. W. Baillie, Jamaica. | 14 | { James Healy, England. |
| 11 | J. W. Malcolm, Scotland. | | { Francis Halley, England. |
| 12 | { T. Y. Barkley, Scotland. | 16 | { E. B. Israel, South Africa. |
| | { R. Lawson, Scotland. | | { G. D. Fairley, Scotland. |

- | | | | |
|----|-----------------------------------|----|---------------------------------|
| 18 | M. Barseghian, Persia. | 26 | { E. H. Newton, Scotland. |
| 19 | John Armstrong, England. | | { G. M. Findlay, England. |
| 20 | G. A. G. Macdonald, Scotland. | 28 | C. H. H. Coetzee, South Africa. |
| 21 | { Anthony Watson, England. | 29 | W. E. Thompson, Canada. |
| | { Ronald Phease, Scotland. | 30 | C. Russell, England. |
| 23 | Lockhart Spence, Australia. | | |
| | { A. J. Desmond Rowan, Australia. | | |
| 24 | { Wyndham Williams, South Wales. | | |

Summer Term.*First-Class Honours.*

- | | | | |
|---|--|---|--------------------------------|
| 1 | Henry B. Kirk, Scotland
(<i>Medallist</i>). | 3 | William Brownlie, New Zealand. |
| 2 | A. Fraser Campbell, Scotland. | | |

Second-Class Honours (in alphabetical order).

- | | |
|-----------------------------|-------------------------------------|
| J. G. Anderson, Ireland. | W. K. M'Intyre, Tasmania. |
| P. C. Davie, New Zealand. | W. Tyrrell Patterson, India. |
| A. V. Dill, Scotland. | P. A. Rostant, Trinidad. |
| W. Haig Ferguson, Scotland. | H. M. Sandison. |
| J. S. Galvin, India. | R. A. Warters. |
| A. M. Ghosh, India. | J. A. Cooper Williams, West Africa. |
| J. E. Larché, Mauritius. | A. Wotherspoon, England. |
| C. W. Lewis. | C. W. Ng Yow, South America. |
| A. M'Ilwaine. | |

NORMAN WALKER, M.D., *Lecturer.*

DISEASES OF TROPICAL CLIMATES.**Autumn Term.***First-Class Certificates.*

- | | | | |
|---|---|---|----------------------------------|
| 1 | Douglas Martin, M.B., Scotland
(<i>Medallist</i>). | 2 | A. M. V. Hesterlow, M.B., India. |
| | | 3 | Edward J. Blair, Scotland. |

Second-Class Certificates.

- | | | | |
|---|------------------------------|---|--------------------------------|
| 4 | F. G. Macnaughton, Scotland. | 6 | Jos. K. Venables, New Zealand. |
| 5 | R. M'Cheyne Paterson, India. | | |

Summer Term.*First-Class Honours.*

John Kirk, M.B., Scotland (<i>Medal-list</i>).	William Mackenzie, M.B., Scotland.
G. A. Borthwick, M.B., England.	S. R. Rao, F.R.C.S.E., India.
Laurence G. Fink, M.B., India.	

Second-Class Honours.

J. A. Taylor, M.B., England.	F. T. Simpson, M.B., Durh., England.
Robert Macpherson, M.B., Scotland.	S. L. Mitra, M.B., India.
K. P. Panikkar, M.B., India.	

D. G. MARSHALL, M.B., Major, I.M.S., *Lecturer.*

HISTORY OF MEDICINE.

- | | |
|---|--|
| 1 Joseph Schneider (<i>Welcome Essay Gold Medal</i>). | 2 William Everett (<i>Welcome Essay Silver Medal</i>). |
|---|--|

First-Class Honours.

Harry S. Lucraft.	H. C. Sinderson.
J. Arthur Hadfield.	

JOHN D. COMRIE, M.A., B.Sc., M.D., *Lecturer.*
L. J. GRANT, *Secretary of Senatus.*

FACULTY OF MUSIC.**HARMONY.***Honours Certificate.*

- 1 John W. Kinnear.

Honourable Mention.

- 2 Marguerite H. Salmond.

ADVANCED HARMONY (First Year).*Honours Certificate.*

- | | |
|-----------------------------|--------------------------|
| 1 Dorothy Wauchope Stewart. | 4 Christian G. Anderson. |
| 2 Flora Inch. | 5 Duncan M'Kenzie. |
| 3 Alice Mary Watson. | |

Honourable Mention.

- | | |
|-----------------------|-----------------------|
| 6 Margaret S. Jarvie. | 7 C. Gladys Sturrock. |
|-----------------------|-----------------------|

ADVANCED HARMONY (Second Year).*Honourable Mention.*

Florence E. Jagger.

COUNTERPOINT (First Year).*Honours Certificate.*

- | | | | | |
|---|---------------------------|--|---|------------------|
| 1 | Dorothy Wauchope Stewart. | | 2 | Duncan M'Kenzie. |
|---|---------------------------|--|---|------------------|

Honourable Mention.

- | | | | | |
|---|------------------|--|---|------------------|
| 3 | Gladys Sturrock. | | 4 | John W. Kinnear. |
|---|------------------|--|---|------------------|

COUNTERPOINT (Second Year).*Honourable Mention.*

Margaret S. Jarvie.

MUSICAL FORM (First Year).*Honours Certificate.*

- | | | | | |
|---|--------------|--|---|---------------------------|
| 1 | George Hume. | | 2 | Dorothy Wauchope Stewart. |
|---|--------------|--|---|---------------------------|

Honourable Mention.

- | | | | | |
|---|---------------------|--|---|--------------------|
| 3 | C. Gladys Sturrock. | | 5 | John W. Kinnear. |
| 4 | Margaret S. Jarvie. | | 6 | Elizabeth Pollock. |

MUSICAL FORM (Second Year).*Honours Certificate.*

Florence E. Jagger.

MUSICAL HISTORY.*Honours Certificate.*

- | | | | | |
|---|---------------------------|--|---|---------------------|
| 1 | Dorothy Wauchope Stewart. | | 2 | Margaret S. Jarvie. |
|---|---------------------------|--|---|---------------------|

Honourable Mention.

- | | | | | |
|---|------------------------|--|---|------------------|
| 3 | Christian G. Anderson. | | 5 | Flora Inch. |
| 4 | Alice Mary Watson. | | 6 | John W. Kinnear. |

MUSICAL ANALYSIS.*Honours Certificate.*

- | | | | | |
|---|------------------|--|---|---------------------------|
| 1 | Winifred H. Fry. | | 2 | Dorothy Wauchope Stewart. |
|---|------------------|--|---|---------------------------|

Honourable Mention.

- | | |
|---|---------------------|
| 3 | C. Gladys Sturrock. |
|---|---------------------|

FREDERICK NIECKS, Mus.D., *Professor.*

EXAMINATIONS FOR BURSARIES IN ARTS.

SEPTEMBER 1913.

ORDERS OF MERIT.

I.—STUDENTS ENTERING FIRST SESSION.

A.—General Bursary List.

(*Subjects of Examination*—Latin, Greek, Mathematics, French, German, English, History and Geography, Italian, Spanish, Celtic. Candidates may take up four different subjects, but must select at least two from the five subjects first mentioned. The full marks for each subject are 100.)

	Allan J. Cleghorn, Dundee High School.		James S. Hall, George Watson's College.
	David Milne, Daniel Stewart's College.		Agnes H. Bannerman, Boroughmuir Higher Grade School.
	Thomas M. Millar, Broughton Higher Grade School.	15	Margaret R. Greig, Kirkcaldy High School.
	Robert B. Bennett, George Watson's College.		Helen I. Wilkie, Edinburgh Ladies' College.
5	Margaret M. M'Crea, Kirkcaldy High School.		Andrew W. Bannerman, George Heriot's School.
	Dorothy Steven, St George's High School.		Francis C. Watt, Berwickshire High School.
	James Farquhar, Fettes College.		William Cooper, Broughton Higher Grade School.
	John S. Stevenson, George Watson's College.	20	Margaret Robertson, Montrose Academy.
	John S. Robertson, George Watson's College.		Annie R. Ross, Kirkcaldy High School.
10	James H. B. Bell, Bell-Baxter School, Cupar.		James P. Davie, Bathgate Academy.
	William M. Ames, Dundee High School.		Margaret M. Bannerman, Boroughmuir Higher Grade School.
	John MacInnes, Portree Higher Grade School.		James Mill, Dundee High School.

- | | | | | |
|----|---|---|----|--------------------------------------|
| 25 | { | John J. B. Martin, Oban High School. | { | Nancy K. Anderson, Dumfries Academy. |
| | { | William M. Yeatts, Royal High School. | 40 | { |
| | { | Jeanie Dawson, Alva Academy. | | { |
| | { | Janet T. Lowe, Berwickshire High School. | | { |
| | { | Donald P. M'Iver, Royal High School. | | { |
| 30 | { | William T. Eunson, Kirkwall Burgh School. | | { |
| | { | Margaret S. Macalpine, Boroughmuir Higher Grade School. | 45 | { |
| | { | Mary A. M. S. Scott, Dumfries Academy. | | { |
| | { | Agnes C. Harrower, Dunfermline High School. | | { |
| | { | Margaret M. Loudon, Broughton Junior Students' Centre. | | { |
| 35 | { | Olive A. G. Brown, George Watson's Ladies' College. | 50 | { |
| | { | Mary A. M'Kie, Dumfries Academy. | | { |
| | { | John Henderson, Ayr Academy. | | { |
| | { | Rachel G. Somerville, Edinburgh Ladies' College. | | { |

B.—John Welsh Classical Bursary.

(*Subjects of Examination*—English (100), Latin (100), and Greek (100).)

- | | |
|--|---|
| Allan J. Cleghorn, Dundee High School. | Dorothy Steven, St George's High School. |
| David Milne, Daniel Stewart's College. | 10 Robert Rawson, Dumfries Academy. |
| James Farquhar, Fettes College. | George Mowat, Miller Institution, Thurso. |
| John S. Stevenson, George Watson's College. | William Balleny, Merchiston Castle School. |
| 5 Margaret M. M'Crea, Kirkcaldy High School. | Andrew Lang, Kilmarnock Academy. |
| John J. B. Martin, Oban High School. | { Norman D. Kennedy, George Watson's College. |
| Francis C. Watt, Berwickshire High School. | 15 { Donald P. M'Iver, Royal High School. |
| John S. Robertson, George Watson's College. | { John D. A. Macfie, Dunfermline High School. |

C.—John Welsh Mathematical Bursary.*(Subject of Examination—Mathematics, especially pure Geometry.)*Allan J. Cleghorn, Dundee
High School.John S. Robertson, George
Watson's College.James H. B. Bell, Bell-Baxter
School, Cupar.Stephen L. Hislop, Broughton
Higher Grade School.5 { Robert B. Bennett, George
Watson's College.{ Philip S. Smith, George Wat-
son's College.Thomas M. Millar, Broughton
Higher Grade School.William Cooper, Broughton
Higher Grade School.**II.—SECOND YEAR BURSARIES.***(Subjects of Examination—Latin, Greek, Mathematics.)*

James A. Hart.

| David Brown.

III.—THIRD YEAR BURSARIES.*(Subjects of Examination—Classics, Mathematics, and Logic with
Psychology.)*

Raymond L. Langley.

IV.—RENTON BURSARY.*(Subjects of Examination—English and Mathematics.)*

Thomas M. Millar.

| William Cooper.

| Bertram T. Fraser.

V.—KELLAND PRIZE.*(Subject of Examination—Higher Geometry.)*

James B. Lockhart.

VI.—PATTERSON BURSARY IN ANGLO-SAXON.

Charles K. Scott Moncrieff.

**VII.—HERIOT ST GEORGE'S TRAINING COLLEGE
BURSARY (GRADUATES).***(Subjects of Examination—Three of the following—English (100), Latin
(100), Greek (100), Mathematics (100), French (100), German (100).
Papers as for General Bursary Competition.)*Margaret D. Howie, M.A. } Equal.
Margaret B. Martin, M.A. }**VIII.—HERIOT MEDICAL BURSARY FOR WOMEN.***(Subjects of Examination—Any number of the subjects in the
Arts Preliminary Examination.)*

Marion E. Reid.

BENEFACTORS OF THE UNIVERSITY.

THE Revenues of the University were formerly scanty and very inadequate for the encouragement of the higher education and learning in the Scottish metropolis. Scholarships and Fellowships were unknown prior to those recently instituted, and the emoluments of several of the Chairs are still greatly inferior to those in many other Universities.

During the early period of its history, the University received a considerable number of small donations and bequests, chiefly for Bursaries. Notices of these will be found in the preceding pages, in the Histories of the University by Bower, Dalzel, and Grant, and in the Report of the Universities' Commissioners in 1830. A list of early Benefactors to the Library is given at p. 50.

By Act 1 and 2 Vict., cap. 55, the various sums of money mortified in the hands of the Town Council for the support of the University, amounting to £13,119, were discharged, and an annual payment of £2500 (since reduced to £2170) secured in terms of "The Edinburgh Corporation Stock Act, 1894," over the Common Good of the City, etc.

During last century, especially since 1860, many donations and bequests have been made by Benefactors of the University for the foundation of Fellowships, Scholarships, and Bursaries, for the endowment of Chairs, and for the erection of the New Buildings, including the "M'Ewan Hall," the "John Usher Institute of Public Health," and the "Hughes-Bennett Physiological Laboratory." The new buildings for the "Engineering Department" and the "Natural Philosophy Department" at High School Yards are now complete, and in full occupation. A complete description of the Engineering buildings is given

in Appendix I., Calendar 1906-7, and a description of the Natural Philosophy buildings is given in Appendix I., Calendar 1907-8. The University, however, in many respects, is still very inadequately endowed, and much requires to be done that it may not fall behind the requirements of the age. Intending Benefactors are respectfully reminded that additional CHAIRS, LECTURESHIPS, LABORATORY EQUIPMENTS, LIBRARY ENDOWMENTS, FELLOWSHIPS, SCHOLARSHIPS, BURSARIES, and FUNDS for RESEARCH, for GENERAL MAINTENANCE, and for BUILDINGS, are urgently required.

The names of Benefactors, if so desired, may be connected with the Benefactions they bestow. Such Benefactions may simply be conveyed to the "University of Edinburgh." All necessary information will be gladly afforded by the Principal, the Secretary of the University Court, the Secretary of Senatus, the Deans of the Faculties, or the University Librarian.

The following list includes the chief Benefactors of recent years, together with the purposes of their benefactions :—

WILLIAM M'EWAN, Esq., LL.D., M.P., donor of the M'Ewan Hall, at a cost (including balance paid for Site and Grand Organ) of about £115,000.

ADAM GIFFORD, Senator of the College of Justice, bequeathed £25,000 for the foundation of a Lectureship for promoting, advancing, teaching, and diffusing the study of Natural Theology in the widest sense of that term.

JOHN FULTON, Esq., bequeathed £3000 to General University Fund, the greater part of which has been devoted to the equipment of the new Engineering Laboratory, called the "Fulton Laboratory."

Miss **ELIZABETH STEVEN**, of Bellahouston—Founder of the Steven Lectureship in connection with the Chair of Agriculture.

ALEXANDER LOW BRUCE, Esq., Edinburgh,
£5000

Mrs **A. L. BRUCE**, £500

Miss **A. BLACKWOOD BRUCE**, £500

Other members of the Bruce family, £163

Sir **JOHN USHER**, of Norton, £8000

WILLIAM YOUNGER & Co., £1000

Founders of "the Bruce and John Usher Chair of Public Health" in the Faculties of Medicine and Science.

BENEFACTION by Sir **JOHN USHER** of Norton of upwards of £21,000, for the building and equipment of a Laboratory and Class-Rooms in connection with Chair of Public Health.

Sir WILLIAM FRASER, K.C.B., LL.D.—

1. For foundation of Chair or Professorship to be called "The Sir William Fraser Professorship of Ancient History and Palæography," £25,000.
2. For Library purposes, £10,000.
3. Half of Residue of Estate for general purposes, but especially for Foundation of Bursaries, etc., in connection with History, or for promoting Historical Research, expected to amount to about £15,000.

JAMES RITCHIE, Esq., bequeathed £3000 for University purposes.

HIGHLAND AND AGRICULTURAL SOCIETY, £1071, 6s. 7d., and ROYAL SCOTTISH ARBORICULTURAL SOCIETY, £584, 3s. 10d.—for further Endowment of a Chair or Lectureship in Forestry.

£50 from C. JUNGHEHN, Rangoon, towards foundation of Chair of Forestry.

The Hon. JOHN MACGREGOR, Burmah, £500 towards endowment of Chair of Forestry.

Miss ELEANOR A. ORMEROD, F.E.S., LL.D., £5000 and Collection of Entomological Diagrams prepared by her late sister.

Rev. Dr JOHN WALKER, formerly Professor of Natural History in the University, bequeathed £991 for University Library and College Museum.

Mrs HARRIET G. COX, Gorgie, £2800 for the building of "The Hughes Bennett Laboratory for Physiological Research."

ÆNEAS J. G. MACKAY, K.C., LL.D., £2000, the interest to be applied to the Historical Department.

Messrs R. and J. GARTON, Newton-le-Willows, Lancashire, endowed the "Garton Lectures," on Colonial and Indian Agriculture, with a sum of £150 a year.

Miss JOANNA S. S. GIBSON, Edinburgh, £500 for the formation of a Library of German literature.

Gift of £2,000,000 by Mr ANDREW CARNEGIE, of New York, and of Skibo, in the County of Sutherland, to the four Scottish Universities, the interest to be applied in part to the payment of the class fees of students of Scottish birth or extraction, or who have given two years' attendance after the age of fourteen at Scottish schools; and partly to the better equipment of the Universities.

Gift by Principal Sir WILLIAM TURNER, K.C.B., etc., of a large collection of anatomical diagrams, drawings, skeletons, and preparations, several microscopes, and other instruments, and a number of books.

Gift by Sir DONALD CURRIE, G.C.M.G., of Garth and Glenlyon, of £25,000, of which the interest of £20,000 is to be applied to the remuneration of Lecturers such as the authorities of the University

may from time to time appoint. The University Court, being desirous of permanently associating his name with the fund, have resolved to designate it "The Sir Donald Currie Lectureship Endowment Fund."

Other Contributions to the Extension Scheme have also been intimated, to the extent of £10,000.

Grant by the Trustees of the late Mr GEORGE COMBE of £250 a year for five years towards the salary of the lecturer on Psychology, together with a donation of £300 for the purchase of apparatus and the equipment of a laboratory.

Endowment by Sir JOHN JACKSON, Civil Engineer, London, yielding about £200 per annum, which he desires to be designated a Professor Tait's Memorial Fund for the purpose of encouragement of Physical Research in the University of Edinburgh.

Bequest by the late Mr JAMES MONCRIEFF ARNOTT of Chapel, Fife, and by his daughter, the late Miss JANE MONCRIEFF ARNOTT, of a portion of the residue of their estate, to be designated "The Moncrieff Arnott Fund," to be applied to such uses and purposes of or in connection with the University as to the University Court shall seem proper.

Gift by Mrs CATON and her husband, Dr RICHARD CATON, Lord Mayor of Liverpool, of copies of portraits of George Combe and Dr Andrew Combe.

Donation by the Right Hon. WILLIAM M'EWAN, formerly Member of Parliament for the Central Division of the City of Edinburgh, of a sum of £6450 for establishing a Fund to be called "The M'Ewan Hall Endowment Fund," the annual income of which shall be applied towards meeting payment of the ordinary annual expenditure incurred in connection with the maintenance and repair of the said Hall, and for no other purpose.

A sum of £1500 from the EDINBURGH UNIVERSITY ENDOWMENT ASSOCIATION, to be appropriated and paid in equal proportions towards the endowment of the proposed Chairs of French and German in the University—the annual income arising on said sum of £1500 to be added to capital, except to the extent of £10, 10s., to be applied to continuing the present prizes in French and German hitherto provided by the Association.

A further grant of £400 from the Combe Trustees for the purchase of apparatus in connection with the George Combe Lectureship in General and Experimental Psychology.

A sum of £5000 from Mr CHARLES BRUCE, 3 Melville Crescent, to found and endow a Lectureship on Banking, the Lectureship to be called "The Charles Bruce Lectureship on Banking."

Transference to the University Court by the Acting Committee for the Edinburgh University Improvement and Expansion Scheme of the Investments and Funds. These funds, amounting to £21,444, 17s. 5d.—exclusive of the Tait Memorial Fund—fall to be held for the purposes of the Sir Donald Currie Lectureships Endowment Fund

The Tait Memorial Fund (amounting to £2258, 10s. 1d.) is to be dealt with so that "the annual income shall be devoted to the equipment and maintenance of the Physical Laboratory, and to the promotion of the object which Professor Tait had so much at heart—the cultivation in students of the spirit and power of research."

Gift by Emeritus Professor CHIENE of his Surgical Museum, diagrams, and Laboratory apparatus.

Gift by Professor A. CAMPBELL FRASER of his portrait.

Bequest of £2500 by the late JAMES CLASON HARVIE of Brownlee, Lanarkshire, towards the foundation and endowment of Chairs in French Language and Literature and in German Language and Literature.

The moiety of her Trust Estate which Miss MARY DICK bequeathed to found a Professorship in the University either of Comparative Anatomy or Surgical Anatomy in memory of the late Dr John Barclay and Professor John Goodsir.

Bequest by the late Miss MARGARET WARDLAW of £2000 (to be supplemented by other sums), to be called, in memory of her brother, "The D. R. Wardlaw Memorial Bequest," for behoof of indigent and deserving students of the University who may be temporarily incapacitated from pursuing their studies.

Prizes of a Gold Medal and a sum of £10, and a Silver Medal and a sum of £5, to be given annually by Mr HENRY S. WELLCOME of London, for the purpose of encouraging original research in the History of Medicine.

Gift by Professor GEIKIE of the Geological Class Library of about 2850 volumes, formed by himself and his brother, Sir Archibald Geikie.

Gift by the subscribers of a Portrait of Principal Sir WILLIAM TURNER, K.C.B., etc., etc., painted by Sir James Guthrie.

Bequest by the late Lord STORMONTH DARLING of the sum of £500 to the General University Fund, "in recognition of his long connection with the University as student, representative in Parliament, and member of the governing body."

Grant by the Board of Agriculture for Scotland of £200 towards the provision of facilities for animal breeding on the farm of Fairsacks, recently acquired by the University.

Bequest by the late Mr JAMES CLASON-HARVIE, through his Trustees, of the sum of £800, free of legacy duty, towards the foundation and endowment of a Chair in French Language and Literature, and in German Language and Literature, the money to be appropriated by the University Court so as to equalise, as far as possible, any existing or future endowment of these respective Chairs.

Gift by the Hon. Mrs GREVILLE of the private residence of her father, Rt. Hon. William McEwan, in Edinburgh.

Gift by the Rt. Hon. J. PARKER SMITH of a Bust of John Wilson, Professor of Moral Philosophy (1820-53).

DONATIONS AND BEQUESTS DURING 1913-14.

Bequest by the late Miss M. W. PATON of the MS. Music of the late Rev. Dr John Park, St Andrews, for purposes of the Reid Chair of Music.

Gift by Mr JAMES MACDONALD, W.S., of a volume of MS. Lectures (in Latin) of the Rev. Robert Hamilton, D.D., Professor of Divinity in the University of Edinburgh, 1754-1779.

Gift by Miss A. MACANDREW, Edinburgh, of a Monochord to the Department of Music.

Bequest by the late Dr ALEXANDER MORRISON, Melbourne, of his Herbarium, Botanical Specimens, etc.

Bequest by the late Rev. GEORGE M'GUFFIE, F.S.A. Scot., of £2000, for the foundation of a Bursary to be called "The Archibald or M'Guffie Bursary."

ABSTRACT OF THE ACCOUNTS

OF

THE UNIVERSITY OF EDINBURGH

FOR THE YEAR ENDING 31ST AUGUST 1913.

CAPITAL.

I. GENERAL UNIVERSITY FUND:—

Funds at beginning of year ^a	£69,444	14	9
Add Value of Houses, Nos. 8, 9, and 10 George Square, appropriated to the Departments of Forestry, etc., deducted from Fund last year but now restored, the amount having been debited to a Building Extension Debt Account	5,175	0	0
Transfer from Revenue of Moncrieff Arnott Fund	155	5	3
	£74,775	0	0
Deduct Amount reserved from Treasury Grant for Clinical Teaching in 1910-11 and 1911-12, transferred to a separate Account	775	0	0
	£74,000	0	0

II. SALARIES ACCOUNT AND FEE FUND ACCOUNT (CAPITAL INCLUDED IN BRANCHES IV. AND V. BELOW).

III. PENSION FUND:—

Fund at beginning of year	£22,636	1	5
Deduct Amount drawn from Accumulations of Income to meet Pensions in 1912-13	1,109	13	6
	21,526	7	1

IV. FUNDS PARTLY OR WHOLLY UNAPPROPRIATED TO PARTICULAR PURPOSES:—

Funds at beginning and end of year, no change having taken place during the year	151,808	11	
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Carry forward, £247,334 19

Brought forward, £247,334 19 5

V. FUNDS APPROPRIATED TO PARTICULAR PURPOSES:—

Funds at beginning of year £207,262 15 8

Add Amount set aside for 1912-13 for Insurance of Employees under the Workmen's

Compensation Acts 100 0 0

£207,362 15 8

Add New Capital received during the year:—

Amount allocated by the Trustees of the late James Clason Harvie, Esq., of Brownlee, further towards endowment of Chairs in French and German . . . £800 0 0

Legacy of £30,000, and interest thereon from 15th May 1912, bequeathed by the late Robert Irvine, Esq., Royston, Granton, for the endowment of the Robert Irvine Chair of Bacteriology, of which £25,000 has been devoted to the Professor's salary and £6,021, 12s. 9d. to equipment connected with the Chair 31,021 12 9

Proceeds of further Sale of Books bequeathed to the University by the late Sheriff Æneas J. Mackay, the books sold being duplicates of those already in the Library . . . 9 7 0

Donation by the Scottish Trust and Loan Company of Ceylon towards a Scottish School of Tropical Medicine . . . 5 5 0

31,836 4 9

Carry forward, £239,199 0 5 £247,334 19 5

Brought forward,	£239,199	0	5	£247,334	19	5
Add also Surplus Revenue .	£952	10	11			
Add Sums set aside from Treasury Grant for Non-re- current Expenditure author- ised for purchase of Appara- tus, but not drawn . . .	1,678	4	8			
Reserved for Clinical Teaching	2,000	0	0			
	£4,630	15	7			
Less drawn from Accumula- tions of Revenue . . .	452	14	7			
				4,178	1	0
						243,377 1 5

VI. FUNDS FOR BURSARIES, SCHOLARSHIPS, FELLOWSHIPS, AND PRIZES:—

Funds at beginning of year	£415,732	3	4			
Add new Capital received :—						
Contributions handed over for the endowment of a Prize in the Faculty of Medicine in memory of the late Professor D. J. Cunningham	£179	11	2			
Further payment on account of the Residue of the late Dr Andrew Vans Dunlop added to Fund for Scholarships . . .	1,300	0	0			
Balance of half of the Residue of the Estate of the late Miss Margaret Wardlaw, for behoof of indigent and de- serving students . . .	154	18	5			
Surplus Revenue . . .	2,878	8	9			
				4,512	18	4
						420,245 1 8

VII. ESKBANK FEU - DUTIES — CASUALTY FUND:—

Fund at beginning of year	£872	13	7			
Add Surplus Revenue	43	0	2			
						915 13 9
Total Funds at 31st August 1913				£911,872	16	3

NOTE.—The above Funds are stated at their book value or cost price. The market value of the Funds at the 31st August 1913 was less than the book value by £31,619, 9s. 7d. No notice is taken above of the University Buildings, New Medical School, Music Class Room, McEwan Hall, Usher Institute of Public Health, Engineering and Physical Laboratories, Principal's Official Residence, and Athletic Field, or of the Libraries, Museums, and Furnishings of the University, as the values of these are not known.

REVENUE AND EXPENDITURE.

I. GENERAL UNIVERSITY FUND:—

Revenue.

1. Fees:—

	Revenue.
(a) Matriculation Fees	£3,482 17 0
(b) Entrance Fees from Students not matriculated	19 10 0
(c) Fees in lieu of Matriculation Fees	72 9 0

 £3,574 16 0

(d) Preliminary Examination Fees £424 9 6

(e) Graduation Fees:—

(1) Arts	£1,788 19 6
(2) Science	971 6 0
(3) Medicine	6,403 8 0
(4) Divinity	27 16 6
(5) Law	136 10 0
(6) Music	45 3 0
	9,373 3 0

(f) Fees of Registration of Members of General Council	520 0 0	
		10,317 12 6

(g) Surplus on Fee Fund		13,308 7 9

£27,200 16 3

2. Income from Endowments:—

(a) Appropriated to particular purposes:—

(1) Principalship, Professorships (not paid through Salaries Account), Lecture- ships, and Teaching Foundations	£5,599 7 2
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(2) Other purposes	1,600 5 0
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(b) Unappropriated	6,099 15 2	
		13,299 7 4

3. Annual Grants from Private Sources		3,165 13 4
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4. Local Taxation Grant	£10,800 0 0
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5. Parliamentary Grant	15,120 0 0

£25,920 0 0

 Carry forward, £25,920 0 0 £43,665 16 11

		Revenue.
	Brought forward, £25,920 0 0	£43,665 16 11
Deduct Amounts annually set apart in terms of Or- dinance:—		
For Pensions to Retired Professors, transferred to Pensions Fund . . .	£5,000 0 0	
For Salaries to Professors, transferred to Salaries Account	5,834 2 6	
For King William III. Bur- saries, transferred to the Bursaries Account . .	50 0 0	
		10,884 2 6
		15,035 17 6
6. Treasury Grant:—		
Balance unapplied in previous year brought forward	£113 3 7	
Balance of Grant for year 1911-12 . . .	1,562 10 0	
Grant for second half of Treasury Year 1912-13, and first half of Treasury Year 1913-14, applicable to Academic Year 1912-13	12,500 0 0	
	£14,175 13 7	
Less Reserved for Clinical Teaching	£1,225 0 0	
Unapplied Grants for Ap- paratus set apart in a separate Account . .	1,678 4 8	
Additional Salary to Principal carried forward . .	200 0 0	
		3,103 4 8
		11,072 8 11
7. Miscellaneous Receipts		701 3 11
	Revenue carried to Abstract, £70,475 7 3	

*Expenditure.**Expenditure.*

1. Administration	£5,784 12 1
2. Salaries to Principal and Professors (not paid through Salaries Account)	4,498 5 2
3. Maintenance of Buildings, Service, etc.	15,148 16 8
4. Library	4,183 3 4
5. Class, Laboratory, and Museum Expenses, Equipment, etc.	7,993 12 8
6. Lecturers	15,811 15 11
7. Assistants	13,223 6 11
8. Examiners	3,116 17 11
9. Class Medals and Prizes	311 11 8
10. Graduation Expenses	341 2 10
11. Incidental Expenses and Grants	144 12 4
Expenditure carried to Abstract	<u>£70,557 17 6</u>

II. SALARIES ACCOUNT AND FEE FUND ACCOUNT :—

	Revenue.	Expenditure.
1. Salaries Account	£9,522 11 2	£9,522 11 2
2. Fee Fund Account :—		
Total Class and Laboratory Fees collected	£35,197 11 6	
Less transferred to General University Account, surplus, after making up, with income from Endowments in Salaries Account, the normal salaries to Professors	13,308 7 9	
	<u>21,889 3 9</u>	21,889 3 9
3. Fees not falling into Fee Fund, collected for Faculties of Divinity and Music, and for certain non-qualifying Lectures	554 18 6	554 18 6
Carried to Abstract	<u>£31,966 13 5</u>	<u>£31,966 13 5</u>

III. PENSION FUND :—

	Revenue.	Expenditure.
Interest on Invested Funds . . .	£682 3 6	
Amount drawn from Accumulations of previous years . . .	1,109 13 6	
	<u>£1,791 17 0</u>	
Amount set aside out of Parliamentary Grants . . .	5,000 0 0	
	<u>£6,791 17 0</u>	£6,791 17 0
Carried to Abstract . . .	<u>£6,791 17 0</u>	<u>£6,791 17 0</u>

IV. FUNDS PARTLY OR WHOLLY UNAPPROPRIATED TO PARTICULAR PURPOSES :—

	Revenue.	Transferred to General Univ. Fund.	Transferred to Salaries Account.
1. Annuity under the Edinburgh Corporation Stock Act, 1894 .	£1,679 5 0	£1,032 1 10	£647 3 2
2. Reid Fund	1,454 16 6	1,454 16 6	...
3. Straton Fund	503 13 10	503 13 10	...
4. Cox Fund	71 11 5	71 11 5	...
5. Gibson Fund	66 14 11	66 14 11	...
6. Ormerod Fund	152 15 1	152 15 1	...
7. Moncrieff Arnott Fund . . .	833 16 6	833 16 6	...
	<u>£4,762 13 3</u>	<u>£4,115 10 1</u>	<u>£647 3 2</u>
Carried to General University Fund	£4,115 10 1		
Carried to Salaries Account . . .	647 3 2		
	<u>£4,762 13 3</u>		

V. FUNDS APPROPRIATED TO PARTICULAR PURPOSES:—

(a) Professorships, Lectureships, and Teaching Foundations:—

	Revenue:	Transferred to General Univ. Fund.	Transferred to Salaries Account.	Revenue added to or drawn from Accumulations.
1. Baxter Fund for Salaries of Professors	£568 11 6	£16 5 0	£552 6 6	£ ...
2. Charles Bruce Lectureship on Banking	176 11 4	176 11 4	...	...
3. Bell Chair of Education	357 15 8	...	357 15 8	...
4. Barclay and Goodsir Chair of Comparative Anatomy	447 6 10	378 2 6	...	+ 69 4 4
5. Chair of Celtic	512 15 4	...	497 14 0	+ 15 1 4
6. Sir Donald Currie Lectureships Fund	753 13 6	518 15 2	...	+ 234 18 4
7. Chair of Engineering	188 6 8	...	188 6 8	...
8. Lectureship on Forestry	93 7 0	93 7 0	...	...
9. Lectureships on French and German	505 17 6	365 17 6	...	+ 140 0 0
10. Gifford Lectureship	854 14 10	811 16 0	...	+ 42 18 10
11. Muir Chair of Sanskrit	222 12 8	...	222 12 8	...
12. Murchison Chair of Geology	165 16 8	...	165 16 8	...
13. Æneas Mackay Lectureship on History	75 6 8	75 6 8	...	...
14. Munro Lectureship on Anthropology	231 18 9	216 4 4	...	+ 15 14 5
15. Nichol Foundation	50 0 0	50 0 0	...	...
16. Pulteney Chair of Agriculture	44 2 10	...	44 2 10	...
17. Chair of Public Health	530 17 6	530 17 6	...	...
18. Steven Lectureship on Agriculture	105 18 10	105 18 10	...	...
19. Thomson Fund for Chair of Natural History	42 1 10	...	42 1 10	...
20. Watson Gordon Chair of Fine Art	415 8 8	...	415 8 8	...
	<u>£6,343 4 7</u>	<u>£3,339 1 10</u>	<u>£2,486 5 6</u>	<u>£517 17 3</u>

Carried to General University

Fund £3,339 1 10

Carried to Salaries Account 2,486 5 6

Added to, less drawn from,

Accumulations of Revenue 517 17 3

£6,343 4 7

(b) Purposes other than Professorships, Lectureships, and Teaching
Foundations :—

	Revenue.	Transferred to General Univ. Fund.	Revenue added to or drawn from Accumulations.
1. Chair of Engineering—Expenses Fund	£23 18 7	£23 18 7	£ ...
2. Gilchrist Fund for Apparatus	82 5 4	82 5 4	...
3. Irvine Chair of Bacteriology— Expenses Fund	289 11 6	22 12 11	+ 266 18 7
4. Chair of Geology — Expenses Fund	35 2 0	35 2 0	...
5. M'Ewan Hall	758 0 8	758 0 8	...
6. Reid Chair of Music—Assistants and Expenses Fund	562 19 0	486 3 7	+ 76 15 5
7. Thomson Fund for Expenses of Chair of Geology	11 2 11	11 2 11	...
8. University Building Fund	109 6 6	109 6 6	...
9. Watson Gordon Chair of Fine Art—Expenses Fund	40 10 3	47 17 3	- 7 7 0
10. University Athletic Field Fund	15 17 10	15 17 10	...
11. Walker Library Fund	5 15 6	...	+ 5 15 6
12. Mackay Library Fund	7 7 5	81 12 0	- 74 4 7
13. Tiele History Library Fund	1 16 6	2 1 0	- 0 4 6
14. Gibson German Library Fund	8 16 6	...	+ 8 16 6
15. Jane Kirkpatrick History Library Fund	51 11 2	3 19 0	+ 47 12 2
16. Fund in lieu of Insurance against loss through personal injury to Employees	15 5 6	...	+ 15 5 6
17. Carnegie Trust Grants	3,055 10 9	3,042 0 9	+ 13 10 0
18. Library Catalogue Account	...	370 18 6	- 370 18 6
19. Non-recurrent Expenditure from Treasury Grant authorised for purchase of Apparatus but not drawn	1,678 4 8	...	+ 1,678 4 8
20. Sums reserved from Treasury Grant for Clinical Teaching	2,000 0 0	...	+ 2,000 0 0
	<u>£8,753 2 7</u>	<u>£5,092 18 10</u>	+ £4 112 18 4
			- 452 14 7
			<u>- £3,660 3 9</u>

Carried to General University
Fund £5,092 18 10

Added to, less drawn from,
Accumulations of Revenue 3,660 3 9

£8,753 2 7

VI. FUNDS FOR BURSARIES, SCHOLARSHIPS, FELLOWSHIPS, AND PRIZES :—

	Revenue.	Expenditure.
1. Aitken Scholarship	£147 5 6	£1 17 8
2. Ardvorlich Bursary	16 0 0	16 0 0
3. Neil Arnott Prize	44 17 6	42 18 0
4. Neil Arnott Scholarship	41 4 11	41 5 0
5. Anderson Henry Prize	15 1 4	0 4 0
6. Annandale Gold Medal	8 9 6	7 2 0
7. Baxter Mathematical and Philosophical Scholarships	137 0 8	106 13 10
8. Baxter Natural and Physical Science Scholarships	168 18 2	161 7 6
9. Misses Baxter of Bulgavies Scholarships	186 14 4	70 5 8
10. John Edward Baxter Scholarships, viz. :—		
(1) Fund for Scholarships	304 9 7	256 18 9
(2) Fund for Examiners' Fees	12 0 2	10 0 8
11. Bruce Bursaries and Scholarships	527 17 2	357 10 6
12. Beaney Prize	37 10 0	37 10 0
13. Buchanan Scholarship	37 2 6	40 0 0
14. Buchanan Bursary	23 19 8	23 19 8
15. Bucher Scholarship	136 19 2	120 3 6
16. Bayne Bursary	28 15 0	28 15 0
17. Brown Bursaries	25 0 0	25 0 0
18. Blair Arts Bursary	10 2 3	0 5 0
19. James Beattie's Bursaries	1 10 8	1 10 8
20. Misses Brown Bursaries	37 10 1	37 10 1
21. Blackie Memorial Prize	24 9 8	0 5 6
22. Black Scholarships	158 14 7	59 6 5
23. Butcher Memorial Prize	4 14 1	...
24. Crum Brown Medal	1 2 4	7 9 0
25. Cairns Bursary	19 0 0	19 0 0
26. Cameron Prize	118 14 5	9 6 1
27. Dr John Aitken Carlyle Medical Bursaries	59 15 1	59 15 1
28. Cousin Prize	15 4 1	15 4 1
29. Bailie Cousin Bursary	33 10 1	33 10 1
30. Cobb Scholarship	37 5 2	37 5 2
Carry forward,	£2,420 17 8	£1,627 18 11

	Revenue.	Expenditure.
Brought forward,	£2,420 17 8	£1,627 18 11
31. Crichton Bursaries	1,359 13 11	1,224 13 7
32. Chiene Prize	9 13 0	9 4 0
33. Cunningham Memorial Prize	0 9 4	0 2 6
34. Drummond Scholarship, viz. :—		
(1) Fund for Scholarship	105 0 0	105 0 0
(2) Fund for Examiners' Fees	9 17 8	0 1 6
35. William Dickson Travelling Fund	90 0 0	55 2 6
36. Dundas Bursaries	81 15 1	81 15 1
37. Dalgleish and Macmorran Bursary	13 17 8	13 17 8
38. Conan Doyle Prize	37 10 0	37 10 0
39. Donaldson of Auchairne Bursaries	167 13 11	167 6 11
40. Ettles Divinity Scholarships	131 11 1	104 5 4
41. Ettles Medical Scholarship	37 10 1	37 10 1
42. Ellis Prize	32 12 0	97 9 3
43. Falconer Memorial Fellowship, viz. :—		
(1) Fund for Fellowship	125 2 4	125 2 4
(2) Fund for Examiners' Fees	4 9 6	11 18 4
44. Fotheringham and Forrest Bursaries	49 0 0	49 0 0
45. James Fairbairn Scholarship	34 0 0	34 0 0
46. Freeland Barbour Fellowship	52 18 10	106 9 0
47. Fraser Bursaries	45 7 5	45 7 5
48. Donald Fraser Bursary	51 0 0	51 0 0
49. Ford Bursaries	33 6 9	33 6 9
50. Glover Divinity Scholarship	42 18 6	0 10 6
51. Gray Scholarship	95 15 2	51 18 5
52. Guthrie Fellowship	98 13 7	87 10 0
53. Grierson Bursaries	423 3 1	353 14 6
54. Gunning Victoria Jubilee Prizes in Medicine	254 4 1	57 1 8
55. Gunning Victoria Jubilee Prizes in Divinity	259 5 8	3 2 6
56. Goodsir Memorial Fellowship	138 18 8	147 12 0
57. Dorothy Gilfillan Prize	13 2 6	13 2 6
58. Hamilton Fellowship, viz. :—		
(1) Fund for Fellowship	101 2 1	101 2 1
(2) Fund for Examiners' Fees	5 5 10	0 1 0
Carry forward.	£6,325 15 5	£4,833 16 5

	Revenue.			Expenditure.		
Brought forward,	£6,325	15	5	£4,833	16	5
59. Harrison Bursary	26	5	1	13	5	10
60. Hope Chemistry Prize Scholarships	97	5	4	71	2	3
61. Robert Hunter Bursaries	61	18	2	4	6	3
62. Houldsworth Scholarship	46	17	0	0	12	0
63. Jardine Bursary	43	12	0	43	12	0
64. Jardine of Thorlieshope Bursaries	331	9	11	331	9	11
65. Johnston of Harthope Bursary	19	15	6	35	16	8
66. Jeffrey Scholarships	173	17	8	173	17	8
67. Robert Johnston Bursaries	64	14	10	64	14	10
68. Archibald Johnston Bursary	13	0	0	13	0	0
69. David Kidd Divinity Scholarship	39	15	0	39	15	0
70. Kelland Memorial Prize	4	12	2	4	12	2
71. Miss Annabella Kirkpatrick Scholarship	64	15	1	64	15	1
72. General Lang's Bequest	24	13	8	0	6	0
73. Lockerby Bursary	30	14	11	30	14	11
74. Lorimer Travelling Scholarship	49	14	6	0	12	0
75. Leckie Mactier Fellowship	82	18	10	81	19	9
76. Charles Maclaren Scholarship, viz. :—						
(1) Fund for Scholarship	111	4	11	111	4	11
(2) Fund for Examiners' Fees	7	10	8	0	2	0
77. Maxton Scholarship	42	8	0	42	8	0
78. Mackenzie Classical Scholarship	119	15	1	119	15	1
79. Macpherson Scholarship	88	4	2	45	10	4
80. Marshall Bursary	37	10	4	37	10	4
81. Mackenzie Bursaries in Anatomy	36	5	1	27	8	0
82. Mackinnon Bursaries	67	4	0	67	4	0
83. Mann Bursaries	92	18	10	90	0	0
84. Mackie Bursaries	61	15	0	89	6	6
85. Maclaurin Bursary	97	3	9	151	9	0
86. Maule Bursaries	82	17	2	106	11	11
87. Milner Fothergill Prize	9	15	4	15	2	6
88. Muirhead Prize	18	15	0	18	15	0
89. M'Lurg and Penman Bursary	20	0	0	20	0	0
90. Miller Bursary	24	0	0	24	0	0
Carry forward,	£8,419	2	5	£6,774	16	4

	Revenue.			Expenditure.		
Brought forward,	£8,419	2	5	£6,774	16	4
91. Mitchell and Shortt Bursary	27	11	8	27	11	8
92. Mackenzie (Stornoway) Bursary	26	14	9	22	12	2
93. Mouat Scholarship	58	19	0	58	19	0
94. M'Cosh Graduates Bursary	187	17	6	187	14	5
95. M'Cosh Medical Bursary	14	0	0	14	0	0
96. Moray Fund for Research	790	4	9	656	9	3
97. Newton Bursaries	95	1	9	71	16	9
98. Nairne Bursary	16	3	7	8	8	10
99. Pitt Club Classical Scholarship	75	7	5	75	7	5
100. Pitt Club Theological Scholarship	130	1	4	63	3	6
101. Patrick Bursaries	207	3	11	151	17	6
102. Pattison Prize	15	0	0	15	0	0
103. Patterson Bursary	15	17	5	11	18	4
104. Bailie John Penman Bursary	18	5	8	14	15	0
105. Rev. John Penman High School Bursaries	10	17	6	0	2	6
106. Pringle and Wardrop Bursary	19	8	10	19	8	10
107. Hon. Bouverie F. Primrose Research Fund	3	10	8	...		
108. Rhind Scholarships	185	17	7	170	5	2
109. Renton Bursary in Arts	20	0	0	20	0	0
110. Renton Bursary in Divinity	24	18	4	0	12	0
111. Ramsay Bursary in Arts	11	2	1	11	2	1
112. Ramsay Bursary in Divinity	20	8	4	20	8	4
113. Ritchie Scholarships	85	0	10	80	1	6
114. Horsliehill Scott Bursaries	80	12	6	80	5	1
115. Shaw Fellowship	161	4	11	161	5	0
116. Steven of Bellahouston Scholarship	79	15	1	79	15	2
117. Syme Surgical Fellowship, viz. :—						
(1) Fund for Fellowship	128	5	8	122	1	0
(2) Fund for Examiners' Fees	8	9	6	0	2	3
118. Scott and Dunbar Prize	27	5	10	24	17	5
119. Dobbie Smith Prize	4	15	0	0	1	3
120. Mackay Smith Scholarships, viz. :—						
(1) Fund for Scholarships	102	3	8	76	17	6
(2) Fund for Expenses	3	15	4	1	7	0
Carry forward,	£11,075	2	10	£9,023	2	3

	Revenue.	Expenditure.
Brought forward,	£11,075 2 10	£9,023 2 3
121. Stark Scholarship	58 14 4	55 9 0
122. James Scott Scholarship	35 0 0	35 0 0
123. Struthers and Leighton Bursary	27 2 8	27 2 8
124. Stewart Bursaries	38 12 0	20 6 6
125. George Scott Scholarship	41 5 2	41 5 2
126. Straits Settlements Prize	...	...
127. Tarsappie Bursary	9 3 8	0 2 0
128. Trevelyan Scholarships	37 18 10	29 0 0
129. Trotter and Penman Bursary	12 18 1	12 18 1
130. Sir John Jackson Tait Memorial Fund	216 13 0	152 10 0
131. Tait Memorial Fund	76 2 8	75 0 5
132. Vans Dunlop Scholarships	2,617 10 6	2,128 3 8
133. Wightman Prize	15 3 8	0 4 3
134. Robert Wilson Prize	9 6 2	9 6 2
135. Webster Bursaries	162 16 9	134 1 8
136. John Welsh Bursaries	198 15 8	145 6 0
137. Whitelaw Bursaries	76 13 7	52 10 10
138. King William III. Bursaries	66 13 10	66 13 10
139. Weir, Jenkins, Hepburn, and Lightbody Bursary	11 7 10	11 7 10
140. Wight, M'Call, and Christie Bursary	13 1 1	13 1 1
141. Whiteside Bruce Bursary	42 7 6	0 10 6
142. Wardlaw Memorial Bequest	69 16 10	0 16 0
143. Administration of Bursary Funds	140 17 4	140 17 4
Carried to Abstract	<u>£15,053 4 0</u>	<u>£12,174 15 3</u>

VII. ESKBANK FEU-DUTIES—CASUALTY FUND:—

	Revenue.	Expenditure.
Amount thereof per State No. IV. . . .	£59 5 2	£16 5 0
Carried to Abstract	<u>£59 5 2</u>	<u>£16 5 0</u>

ABSTRACT OF REVENUE AND EXPENDITURE.

	Revenue.	Expenditure.	Surplus or Deficit.
I. GENERAL UNIVERSITY			
FUND	£70,475 7 3	£70,557 17 6 -	£82 10 3
II. SALARIES ACCOUNT AND			
FEE FUND ACCOUNT	31,966 13 5	31,966 13 5	...
III. PENSION FUND	6,791 17 0	6,791 17 0	..
IV. FUNDS PARTLY OR WHOLLY UNAPPROPRI- ATED TO PARTICULAR PURPOSES, the Income on which is disposed of in the General Univer- sity Fund and Salaries Account	...	..	..
V. FUNDS APPROPRIATED TO PARTICULAR PURPOSES OTHER THAN BUR- SARIES, SCHOLARSHIPS, FELLOWSHIPS, AND PRIZES, the Income on which is disposed of in the General University Fund and Salaries Ac- count, or added to Ac- cumulations of Income	...	...	...
VI. FUNDS FOR BURSARIES, SCHOLARSHIPS, FEL- LOWSHIPS, AND PRIZES	15,053 4 0	12,174 15 3 +	2,878 8 9
VII. ESKBANK FEU-DUTIES—			
CASUALTY FUND.	59 5 2	16 5 0 +	43 0 2
	<u>£124,346 6 10</u>	<u>£121,507 8 2</u>	+ £2,921 8 11
			- 82 10 3
			<u>+ £2,838 18 8</u>

ABSTRACT OF REVENUE AND EXPENDITURE STATED UNDER HEADS PRESCRIBED BY THE TREASURY.

REVENUE.

I. FEES :—

1. Class Fees, viz. :—

(1) Fees falling into the Fee Fund :—

(a) Applied to Salaries of Professors	£21,889	3	9
(b) Applied to general purposes	13,308	7	9

£35,197 11 6

(2) Fees collected for Faculties of Divinity and Music, and for certain non-qualifying Lectures	554	18	6
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£35,752 10 0

2. Matriculation and Entrance Fees	3,574	16	0
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3. Examination and other Fees	10,317	12	6
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£49,644 18 6

II. INCOME FROM ENDOWMENTS :—

1. Appropriated to particular purposes, viz. :—

(1) Principalship, Professorships, Lecture- ships, and Teaching Foundations	£9,287	15	10
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(2) Other purposes	1,600	5	0
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£10,888 0 10

2. Unappropriated	6,099	15	2
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16,987 16 0

III. ANNUAL GRANTS FROM PRIVATE SOURCES	3,165	13	4
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IV. LOCAL TAXATION GRANT	10,800	0	0
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V. PARLIAMENTARY GRANT (less £50 for King William III. Bursaries)	15,070	0	0
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VI. TREASURY GRANT :—

1. Balance unapplied in previous year

brought forward	£113	3	7
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2. Balance of Grant for year 1911-12	1,562	10	0
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3. Grant for second half of Treasury Year 1912-13, and first half of Treasury Year 1913-14	12,500	0	0
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Less Reserved for Clinical Teaching	£14,175	13	7
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Unapplied Grants for Apparatus set apart in a separate Account	1,678	4	8
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Additional Salary to Princi- pal carried forward to next year	200	0	0
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3,103 4 8

11,072 8 11

Carry forward, £106,740 16 9

Brought forward, £106,740 16 9

VII. OTHER INCOME :—

1. In General University Fund	£701 3 11	
2. Supplement from Pension Fund	1,791 17 0	
		2,493 0 11
		£109,233 17 8
Deficiency		82 10 3
		£109,316 7 11

EXPENDITURE.

I. ADMINISTRATION £5,784 12 1

II. SALARIES AND PENSIONS :—

1. Salaries, viz. :—

(1) Principal	£419 17 2	
(2) Professors	35,879 13 11	
(3) Lecturers	15,977 3 5	
(4) Assistants	13,223 6 11	
(5) Examiners	3,116 17 11	
		68,616 19 4
2. Pensions		6,791 17 0

III. MAINTENANCE OF BUILDINGS, SERVICE, ETC. :—

1. Ordinary	£10,942 19 10	
2. Extraordinary or non-recurrent	4,205 16 10	
		15,148 16 8

IV. CLASS, LABORATORY, AND MUSEUM EXPENSES, EQUIPMENT, ETC. :—

1. Ordinary	£6,088 12 11	
2. Extraordinary or non-recurrent	1,904 19 9	
		7,993 12 8

V. LIBRARY :—

Ordinary	4,183 3 4
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VI. OTHER EXPENDITURE :—

1. Medals and Prizes	£311 11 8	
2. Graduation Expenses	341 2 10	
3. Incidental Expenses and Grants	144 12 4	
		797 6 10
		£109,316 7 11

FUNDS BEQUEATHED TO THE SENATUS ACADEMICUS SINCE
THE UNIVERSITIES (SCOTLAND) ACT, 1889, CAME INTO
OPERATION, AND ADMINISTERED BY THEM.

For the year ending 31st August 1913.

		Revenue.	Expenditure.
1. Sir Wm. Fraser Chair of Ancient History	£953 8 10		
Less Paid to University Court for Salary and Class Expenses	927 19 3	£25 9 7	£17 6 0
2. Sir Wm. Fraser Library Fund	£373 18 6		
Less paid to University Court for Library	367 10 0	6 8 6	6 8 6
3. Sir Wm. Fraser Fund, preferably for certain other specified purposes	£469 5 10		
Less Paid to University Court for Lectureships and Class Expenses	306 16 3	162 9 7	7 14 6
4. Garton Lectureship on Agriculture	£119 18 6		
Less paid to University Court for Lectureship	119 18 6	...	...
5. Dr John Allan's Fellowship		59 10 9	52 1 0
6. Edmonstoune Aytoun Fellowship		79 17 5	44 0 2
7. Blackie Scholarship		85 10 9	1 12 8
8. Currie Fund for Research		8 2 3	0 2 0
9. Reid and Thomson Bursary		52 6 0	49 0 0
		<u>£479 14 10</u>	<u>£178 4 10</u>

THE UNIVERSITY COURT.

ABSTRACT OF THE PROCEEDINGS OF THE UNIVERSITY COURT, from 1st October 1913 to 1st October 1914.

MONDAY, 20th October 1913.

The minutes of last meeting were submitted and approved.

The report of the Finance Committee on lectureships, assistants, and class expenses for the current academical year was submitted, adjusted, and approved.

A report by the Senatus under Sect. IV. (5) of the Arts Ordinance was submitted.

The Senatus reported that Mr Charles Glover Barkla, M.A., B.Sc., F.R.S., and Mr James Ritchie, M.D., F.R.C.P. (Edin.), having presented their commissions as Professors of Natural Philosophy and Bacteriology respectively, were duly inducted members of the Senatus.

Dr William Russell, F.R.C.P. (Edin.), was appointed to the Moncrieff Arnott Professorship of Clinical Medicine, recently instituted.

The fee for the class of comparative anatomy (for the degree in veterinary science) was fixed at £4. 4s.

It was reported that the four University Courts had agreed to reduce the amount of the inclusive fee for courses of instruction qualifying for the degree of B.L. to twenty-two guineas, payable in one instalment of eight guineas and two instalments of seven guineas.

It was intimated that Professor Sir T. R. Fraser had been appointed chairman of the Clinical Medical Board, instituted under the agreement between the University Court and the Managers of the Royal Infirmary.

The members of the Standing Committees were reappointed for the current academical year, Bailie Rusk being added to the Works Committee. The Court's quota of members on the Library and Museum Committees were also reappointed for the same period.

It was reported that the late Miss M. W. Paton had bequeathed the MS. music of the late Rev. Dr John Park, St Andrews, to the University for the purposes of the Reid Chair of Music.

Mr Andrew Brown was appointed janitor and mace-bearer in room of the late Mr Tweeddale.

Various reports by the Finance and Works Committees were submitted and approved.

MONDAY, 17th November 1913.

The minutes of last meeting were submitted and approved.

The Senatus reported that Mr William Russell, M.D., F.R.C.P. (Edin.), had presented his commission as Moncrieff Arnott Professor of Clinical Medicine, and that he had been duly admitted a member of the Senatus Academicus.

Reports by the Senatus under Section IV. (5) of the Arts Ordinance, and Section X. of the Science Ordinance (No. 12) were submitted.

On the recommendation of the Senatus it was agreed to institute a full honours course in geography in place of the present honours half-course and advanced half-course in that subject.

It was reported that the Senatus had elected Professor Harvey Littlejohn, M.D., as one of their assessors on the University Court, in succession to Professor Sir T. R. Fraser. The Court resolved to record on their minutes their sense of the valuable services rendered to the University Court by Sir Thomas Fraser, during his tenure of office extending over a period of fully ten years.

Grants recommended by the Senatus from the income of the Earl of Moray endowment for the promotion of original research were approved.

Mr William S. Mitchell was appointed University janitor and mace-bearer in room of Mr A. Brown, who had been appointed at the previous meeting but had, in the interval, withdrawn from the appointment.

Dr Carnegie Dickson was appointed Lecturer on Applied Bacteriology.

On the recommendation of the Senatus, recognition was granted to the following extra-Academical teachers, whose courses of instruction shall qualify for graduation in Medicine:—F. Stanley Kipping, Ph.D., D.Sc., University College, Nottingham (Chemistry); Miss Jessie E. Minor, Huguenot College, Wellington, South Africa (Chemistry).

On the recommendation of the Senatus, Dr F. W. Thomas, librarian, India Office, London, and Professor D'Arcy Thompson were appointed additional examiners in connection with these submitted for the degrees of D.Litt. and D.Sc., respectively. The following additional examiners were reappointed:—Mr James F. McKean, M.A. (Pure and Applied Mathematics); Mr R. B. Mowat, M.A. (History); the Rev. G. Wauchope Stewart, B.D. (Divinity). It was remitted to Committees to consider and report with reference to the following additional examinerships, shortly to become vacant:—Education, Experimental Physics, Scottish History, Agriculture, Veterinary Hygiene, Medical Physics, Divinity, Clinical Surgery, Practical Surgery.

It was agreed to grant the use of rooms in the University in connection with the Congress of the Royal Institute of Public Health, to be held in July next.

The gift by Mr James Macdonald, W.S., of a volume of MS. lectures (in Latin) of the Rev. Robert Hamilton, D.D., Professor of Divinity in the University of Edinburgh (1754-1779) was accepted with thanks.

Various reports by the Finance and Works Committees were submitted and approved.

MONDAY, 15th December 1913.

The minutes of last meeting were submitted and approved.

A report by the Senatus, under Section II. of the B.L. Ordinance, was submitted.

The Senatus reported that they had appointed Professor Hudson Beare to be Dean of the Faculty of Science, in room of Professor Geikie, who had resigned the office.

It was reported that the General Council had re-elected Dr D. F. Lowe and Mr D. D. Buchan as Assessors of the Council in the University Court for a further period of four years.

Payments from the income of the D. R. Wardlaw Memorial Bequest Fund were sanctioned.

The following additional examiners were appointed:—Mr W. L. Carrie, M.A., Edinburgh (Education); Dr A. Crichton Mitchell, Edinburgh (Experimental Physics—Arts and Science); Mr W. B. Gray, Edinburgh (Scottish History); Mr John Noble Jack, West Sussex Agricultural College, Uckfield (Agriculture); Mr John Dunstan, M.R.C.V.S., Inversnaid, Liskeard, Cornwall (Veterinary Hygiene); the Rev. Dr J. C. Lambert, Fenwick, Kilmarnock (Divinity); Mr Alfred Daniell, M.A., D.Sc., LL.B., barrister-at-law, London (Medical Physics). Dr George Carse was appointed Examiner in Dynamics in connection with the Arts and Science preliminary examination.

A resolution by the Secondary Education Association of Scotland with reference to proposed post graduate degree in education was submitted.

Professor Ewart was reappointed the University's representative on the Marine Biological Association of the West of Scotland for the year 1914.

It was intimated that the Library Committee had appointed the Hon. John Abercromby to be joint chairman of the Committee, in room of Dr James Burgess, resigned. The Court appointed Mr W. K. Dickson, LL.D., advocate, as one of their representatives on the Library Committee.

Various reports by the Finance and Works Committees were submitted and approved.

MONDAY, 19th January 1914.

The minutes of last meeting were submitted and approved.

The Report by the Finance Committee on the state of the funds as at 31st August last, the revenue and expenditure for the year then ended, and estimates for the current financial year were submitted and approved.

Amended regulations proposed by the Senatus with regard to bursaries in Arts were approved.

Grants recommended by the Senatus from the Earl of Moray Endowment for the promotion of Original Research were approved.

Mr T. H. Collinson, Mus.Bac., was reappointed University Organist for the current year. The Court's representatives on the University Field Committee were reappointed for the year from 15th March next.

The Rev. Dr Bruce M'Ewen was appointed an Additional Examiner in Divinity, in room of the Rev. Dr Lambert, who had withdrawn from the appointment. Mr J. Hogarth Pringle, M.B., C.M., was reappointed an Additional Examiner in Clinical Surgery. Professor J. Breiland Farmer and Dr Alexander Lauder were appointed Additional Examiners in connection with Theses submitted for the degree of D.Sc.

The Court's representatives on the Building and Allocation of Funds Committees in connection with the proposed memorial to the late Lord Lister were appointed.

The Court agreed to appoint a representative on the Committee formed to consider a proposal to establish a College of Music in Edinburgh.

After consultation with the Senatus, the Court agreed to grant a diploma in Education, and to institute a Post Graduate Degree in Education. It was remitted to a Committee to draft an Ordinance providing for the degree.

The Assembly's College of the Presbyterian Church in Ireland, Belfast, was recognised in terms of the Universities Commissioners' Ordinance No. 63, Sec. I. (Graduation in Divinity.)

The gift by Miss A. Macandrew, Edinburgh, of a Monochord to the Department of Music was accepted with thanks to the donor.

Various Reports by the Finance and Works Committees were submitted and approved.

MONDAY, 16th February 1914.

The Court approved of a recommendation of the Senatus that the class fee for the ordinary course of instruction in natural philosophy, including fifty hours' laboratory work, should be £5, 5s.

On a recommendation of the Senatus regarding post-graduate instruction for advanced study and research in the department of mathematics, graduates being allowed to attend without payment of a fee, the Court agreed to insert in the University Calendar the following entry:—"The professor lectures to the research students and post-graduate workers on current developments in mathematical science. The principal aim of the lectures is to bring into prominence topics suitable for original investigation. The hours of lecture are arranged at the beginning of the session."

Amendments proposed by the Senatus on the new arts bursary regulations were approved.

Draft regulations for the diploma in education, which had been framed by a joint committee of the Court and the Senatus, were approved subject to section 12 (2) of the Universities (Scotland) Act, 1858.

On a report by a committee it was agreed to institute a degree in science in engineering mining on the basis of the Commissioners' Ordinance, No. 21 (Edinburgh, No. 3, Regulations for Degrees in Science in Engineering).

The report by the librarian for the academical year 1912-13, under Ordinance No. 64, section 16, and the report on the state of the finances to the Secretary for Scotland for 1912-13 were submitted.

Mr T. H. Collinson, Mus.Bac., was appointed to act as additional examiner in connection with the ensuing examination for the Bucher Scholarship in Music.

MONDAY, 16th March 1914.

The minutes of last meeting were submitted and approved.

The University Court adopted a joint minute prepared on behalf of the Court and Senatus relative to the late Lord Minto, Lord Rector of the University.

The Court approved of a recommendation by the Senatus that the following be recognised as double courses in German:—(a) Ordinary class and intermediate class; (b) ordinary class and honours class; (c) intermediate class and honours class.

Professor Elton, University of Liverpool; Mr Nichol Smith, M.A., Lister College, Oxford; and Mr Stuart Jones were appointed additional examiners in connection with theses submitted for the degree of D.Litt. Mr E. Simpson Shave, Royal Veterinary College, Camden Town, London, was appointed additional examiner in Anatomy of domesticated animals in connection with the examinations for the degree of B.Sc. in veterinary science.

Mr P. F. Wood, advocate, was reappointed University Lecturer in Administrative Law.

The Court approved of the title of Research Fellow being conferred by the Senatus on Mr H. J. W. Tillyard, M.A., under the Commissioners' Ordinance, No. 61.

The Court approved of a recommendation of the Senatus as to an alteration on Clause 8 of the Regulations for the Diploma in Tropical Medicine and Hygiene, relative to examiners.

Recognition was granted to Mr Archibald M'Kendrick, F.R.C.S.E., &c., Edinburgh, as an extra academical teacher, whose courses of instruction in Physics shall qualify for graduation in Medicine under the Court's Ordinance (No. 12).

It was agreed that the class fee for each of the advanced courses in Practical Forestry should be £3, 3s., as from 1st October next.

The report as to statistics for the academical year, 1912-13, to the Secretary for Scotland, under Section 30 of the Universities (Scotland) Act, 1889, was submitted.

Intimation was made of a bequest to the University by the late Dr Alexander Morrison, Melbourne, of his herbarium of botanical specimens.

MONDAY, 18th May 1914.

The minutes of last meeting were submitted and approved.

An application by Professor Niecks for permission to retire on a retiring allowance, from the Reid Chair of Music, was granted.

On the recommendation of the Senatus, the following were recognised as double courses in French:—(a) Ordinary Class and Intermediate Class; (b) Ordinary Class and Honours Class; (c) Intermediate Class and Honours Class.

A recommendation of the Senatus as to the granting of exemption from attendance on Arts classes during the current terms was approved.

A report by the Senatus under Section X. of the Commissioners' Ordinance (No. 12) was submitted.

Copies of the report by the official advisers in Arts for the current academical year were submitted.

Grants recommended by the Senatus from the Earl of Moray Endowment for the Promotion of Original Research were approved.

The following additional examiners were appointed:—Professors C. S. Sherrington and A. H. E. Love, University of Oxford, and Professor P. T. Herring, University of St Andrews (D.Sc. Theses); Dr Byrom Bramwell, Edinburgh (Medicine in its bearings on Public Health); Dr R. A. Fleming, Edinburgh (Practice of Medicine).

Sir Charles H. Read, P.S.A., Keeper of British and Mediæval Antiquities and Ethnography in the British Museum, was appointed Munro Lecturer for 1915.

Professor Rankine was reappointed, and Professor Hudson Beare appointed the Court's representatives on the Board of Management of the Royal (Dick) Veterinary College.

The Rev. J. P. Lang, Stirling, was reappointed a Governor of the Stirling Educational Trust.

Mr William Gordon, B.Sc., &c., was appointed Lecturer on Forest Engineering as from the beginning of next academical year.

Copies of reports by Committees of the General Council were submitted. Representations by the General Council with regard to regulations for Diploma in Education, Ordinance for Degree in Education, and amended regulations for first year bursary examination in Arts were submitted.

There were laid before the Court copies of an Ordinance by the University Court of the University of Aberdeen, No. 7 (Regulations as to Examinations, &c.).

Intimation was made of a bequest to the University by the late Rev. George McGuffie, F.S.A.Scot., of £2000 for the foundation of a bursary to be called "The Archibald or McGuffie Bursary."

Various reports by the Finance and Works Committees were submitted and approved.

MONDAY, 15th June 1914.

The minutes of last meeting were submitted and approved.

It was agreed to postpone the ordinary meeting of the Court next month from the 13th to the 20th.

The Court granted an application by Professor James Geikie and by Professor Donald Mackinnon for permission to retire, on a retiring allowance, from the Chair of Geology and the Chair of Celtic Languages, Literature, History, and Antiquities respectively, and instructed the secretary to intimate the vacancy in these Chairs to the respective patrons—the Crown through the Secretary for Scotland, and the curators of patronage.

The class fee for the course on educational problems in the case of students who are not studying for the University diploma in education was fixed at £2, 2s. The fee for the class of surgical pathology was fixed at £1, 1s.

On the recommendation of the Senatus, Mr James Drever, M.A., was appointed University Lecturer on Education, and Mr James M. Graham, M.B., Ch.B., was appointed University Lecturer on Surgical Pathology in the Department of Surgery.

The following were appointed additional examiners in connection with higher degrees in arts and science:—Professor Selbie, Mansfield College, Oxford (D.Phil. degree); Dr John S. Flett, H.M. Geological Survey, Edinburgh, and Dr Cecil H. Desch, University of Glasgow (D.Sc. degree). Captain J. W. Sandilands, Staff officer of the Scottish Defences, was appointed additional examiner in military history, in connection with the ensuing examinations.

On the recommendation of the Senatus, it was agreed to grant the use of rooms in the University for the purposes of the Edinburgh post-graduate vacation courses in medicine, to be held in August and September next.

Mr Ernest Holden, B.Sc., University College, Nottingham, and Mr L. A. L. King, M.A., St Mungo's College, Glasgow, were recognised as extra-academical teachers, whose courses of instruction in zoology shall qualify for graduation in medicine.

Statistics relative to the preliminary examinations of March last, issued by the Joint Board of Examiners, were submitted.

A statement of the bacteriological work of the city performed in the Usher Institute of Public Health, and of the expenses incurred in connection therewith during the year ended 15th ult., was submitted.

Various reports by the Finance, Works, and Business and Law Committees were submitted and approved.

MONDAY, 20th July 1914.

The minutes of last meeting were submitted, and approved.

Mr Donald Francis Tovey, B.A., was appointed to the Reid Professorship of Music, as from 1st October next, in succession to Professor Niecks.

An application on behalf of the teachers for the medical education of women in Edinburgh for renewal of recognition for next academical year, under Ordinance No. 18 (General No. 9), Section III. (4), was granted.

A report by the Senatus under Section IV. (5) of the Arts Ordinance was submitted.

The Senatus reported that the funds for the endowment of the Vans Dunlop Scholarships would now admit of the foundation of two additional scholarships of £100 each, and that they had resolved to institute a new scholarship in pathological bacteriology and another in modern languages.

Appointments of University assistants and lecturers were made for next academical year.

Professor Whittaker was appointed the University's representative in mathematics and dynamics on the Joint Board of Examiners of the Scottish Universities for the year from 1st February next.

Payment was authorised of the cost of the work carried out at the Royal Infirmary under an agreement between the Court and the Infirmary in connection with the fitting up of rooms for "side-room" teaching and the extension and equipment of the pathological department.

A communication was laid before the meeting from the honorary secretaries of the Royal Victoria Hospital as to the proposed foundation of a Chair of Tuberculosis. This proposal was much appreciated, and met with the approval of the Court.

The Court directed that copies of a draft general ordinance, No. 3 (regulations as to preliminary examinations), should be transmitted to the Senatus and the General Council.

It was agreed, subject to the approval of the Senatus, to fix 24th October next as the date of the rectorial election.

It was intimated that the purchase of the building, 16 Chambers Street, for purposes of University extension had now been completed.

Plans were approved for the laboratory block of the new chemistry building, High School Yards.

A resident warder was appointed for the new University buildings, George Square.

Various reports by the Finance and Works Committees were submitted and approved.

APPENDIX.

NEW FOUNDATIONS.

Dalgety and Wilson Trust.

Misses Mary Dalgety, Margaret Dalgety, Hannah Dalgety and Helen Dalgety, and Mrs Isabella Jamieson Dalgety or Wilson, who all resided at No. 47 Minto Street, Edinburgh, by Deed of Mortification and Trust executed by them, dated 19th April 1897, which came into effect by the death of the last survivor of them on 25th October 1912, directed their trustees *inter alia* to "set aside and invest in their own names as trustees the sum of £10,000 sterling, free of legacy duty, for the foundation and endowment of the bursaries and prizes and for the other ends, uses, and purposes following, namely:— . . . (*Tertio*) The free income or revenue after satisfying the foregoing purposes shall be divided into four equal parts, and applied three parts thereof for bursaries to be called the 'Harry Dalgety Bursaries,' and one part thereof for prizes to be called the 'Harry Dalgety Prizes,' subject said bursaries and prizes to the conditions and regulations following: (*First*) The said bursaries shall be four in number, of equal amount, and tenable by each bursar for a period not exceeding two consecutive years, during which the studies of each bursar shall be prosecuted in the Law Faculty of the University of Edinburgh, and he shall be bound to attend if he holds a two-years bursary four full courses of lectures delivered in said Faculty, excluding the Lectures upon Scots Law and Conveyancing, or, in the event of his having previously attended more than one full course (excluding as aforesaid), the bursary shall be awarded for one year only, under the condition that he attend two courses; declaring always that in reckoning the number of courses attended or to be attended, the classes in which not more than fifty lectures are given shall be reckoned as a half-course only. (*Second*) The said bursaries shall be bestowed by the said trustees upon the applicants, being matriculated students of a Scotch University, who shall satisfy the said trustees that they require pecuniary assistance in the prosecution of their studies in law, and are deserving of it, and who (having produced certificates of attendance at the class lectures in Scots Law and Conveyancing in a Scotch University), on strict and thorough examination and open competitive trial by examiners appointed by the said trustees (who may be of their own number and who shall receive such suitable fee for their trouble as the trustees may fix), shew the greatest proficiency in

and knowledge of Scots Law and Conveyancing. Provided always that it shall be in the power of the said trustees to withhold all or any of the said bursaries if the candidates therefor shall in their judgment not seem eligible or worthy of the bestowal of the same upon him or them. (*Third*) The said bursaries shall be open for competition for the first time at the commencement of the Winter Session occurring twelve months after the death of the last survivor of us, and at that time two only of said bursaries shall be competed for, the remaining two being competed for the following year, and so on, it being our desire that two bursaries shall be open for competition every year; and if at any time one or both of the bursaries competed for be awarded for one year only, or not awarded at all, then the said trustees shall deal with the said bursaries or unawarded portion thereof as surplus revenue, as after provided for, or allow the same to be competed for as a one-year bursary or bursaries at the next annual competition, as they in their sole discretion may deem fit, but in such a manner always as to allow of two full bursaries being open for competition every year. (*Fourth*) In the event of any of the bursaries becoming vacant by death, resignation, or forfeiture, such bursary or bursaries shall be dealt with as provided for with regard to unawarded bursaries. (*Fifth*) Said bursaries shall never exceed the sum of £50 each per annum, and any surplus of revenue after allowing for that sum shall be retained in the hands of the said trustees and shall, as may seem best to them, either be kept as a guarantee fund for future years for payment of the said bursaries at the rate of £50 a year, or awarded from time to time as an additional bursary or bursaries in such sums as the said trustees may see fit, upon the same conditions as the others. (*Sixth*) The said bursaries shall be held only during good behaviour and shall be forfeited when in the judgment of the said trustees the bursar becomes, from any cause, unfitted to hold the nomination, as to which the said trustees shall be the sole judges. (*Seventh*) The said bursaries shall be paid to the respective holders half yearly at Martinmas and Whitsunday, by equal portions, and the holders previous to receiving payment shall be obliged to submit certificates of regular attendance and study, to the satisfaction of the said trustees. (*Eighth*) It shall not be competent for any person to hold one of the said bursaries along with any other fellowship, scholarship, or bursary connected with the Faculty of Law in the said University, or to be awarded one of the said bursaries a second time. (*Ninth*) The said prizes to be four in number, and to be awarded in money for excellence in the study of legal subjects (to be annually selected by the said trustees), upon which lectures may be delivered in the University of Edinburgh, to the most meritorious students who have attended the course of lectures upon the subjects upon which the prizes are awarded for one session only, and that within a period of three years prior to the date of competition for the same, the amount of the said prizes not to exceed £25 or to be under £10, 10s., and to be awarded annually, each being given for excellence in one subject; but declaring always that no student shall be entitled to receive a prize while he holds, or if he has held, one of the bursaries hereby endowed, and any surplus of the one-fourth share of revenue being dealt with by the said trustees in a manner similar to the surplus revenue under Article Fifth hereof, said prizes to be awarded on such competitions as the said trustees may direct and appoint, and upon their decision (the

examiners in such competitions, who may be of the number of said trustees, being paid such suitable fee for their trouble as the said trustees may fix), and the said trustees shall award these prizes for the first time for the session which shall commence one year after the death of the last survivor of us, with power always to the said trustees to withhold the said prizes if they do not consider the candidates therefor of sufficient merit to receive them. (*Tenth*) The said trustees shall cause notice to be given to students attending the lectures connected with the Law Faculty in the University of Edinburgh and in the other Scotch Universities, either by printed notice, advertisement, or intimation by the Professors and Lecturers in the Law Faculty, or in such other manner as they may consider necessary, at the commencement of each Winter Session, of the bursaries and prizes before instituted falling to be awarded before the commencement of the next ensuing Winter Session, with such powers to the said trustees to invest the capital of said legacy or endowment fund as are competent to trustees by the Law of Scotland for the time, and to make such further or other regulations from time to time as they may consider desirable for the administration of the said bursaries and prizes not inconsistent with the objects of the endowment . . . but declaring always that it shall not be in the power of the said trustees at any time to confine the benefits of the foresaid bursaries and prizes to students who have already taken or propose to take a University Degree."

Rules and Regulations by the Trustees of the Late William Dawson, Esq., of Gairdoch and Powfoulis, relative to The "William Dawson Bursaries" for Engineering and Agricultural Students at Edinburgh University.

First.—The bursaries shall be known as the "William Dawson Bursaries," and shall be paid out of the free income of the sum of £5000 set apart and invested by the trustees in terms of the Trust Disposition and Settlement of the said William Dawson.

Second.—Subject always to the powers reserved to the trustees in Rule Tenth, there shall be four bursaries, and each bursary shall be of the annual value of £30.

Third.—The bursaries shall be open to students in or entering the Faculty of Science and studying for the degree of Bachelor of Science in Engineering or Agriculture at the University of Edinburgh, and shall be tenable for three years or such shorter time as the bursars continue students of the Science Faculty of said University, provided that the tenure of such bursaries shall be dependent upon the trustees being satisfied that the bursars are duly and faithfully performing the work involved in their course of study; and for that purpose each bursar shall, at the end of each academic year, forward to the trustees (through their Law Agents, Messrs John G Brodie & Sons, W.S., 5 Thistle Street,

Edinburgh) a Report by the Dean of the Faculty of Science upon the work and progress of such bursar during the preceding year. In the event of such Report being, in the opinion of the trustees, unsatisfactory, it shall be in their power to discontinue any further payment of the bursary to the student so reported upon.

Fourth.—One of the said bursaries shall be given to a student in each of the following branches of the said Faculty.¹—(1) Civil Engineering; (2) Mechanical Engineering; (3) Electrical Engineering; and (4) Agriculture.

Fifth.—For the purpose of ascertaining the respective recipients of the bursaries, the Senatus of the said University shall prescribe and carry through the necessary examination, either by means of existing examinations or, if necessary, by means of special bursary examinations, and shall report the result of such examinations to the trustees, with a recommendation as to the particular candidates to be appointed to bursaries—the trustees, however, reserving the right to pass over the recommended candidate or candidates who have secured the highest places in said examinations, and to prefer other candidates. Each candidate for the bursaries shall submit to the Senatus in the manner to be prescribed by them (1) details of the record of his school work, where he has just left school and has had no practical training, or (2) details of his workshop or other technical training and of any technical classes which he has attended, where he has since leaving school gone through a course of practical training or attended technical classes. The said Senatus shall further arrange for whatever advertisement or other steps may be deemed necessary to bring the said bursaries and the conditions thereof before students. The expenses of such special bursary examination (the fees for which shall be fixed by the Senatus) and of such advertisement shall be paid out of the income of the foundation.

Sixth.—Only students born within the United Kingdom of British parents shall be eligible to hold the said bursaries.

Seventh.—Unless with the express permission of the trustees it shall not be in the power of a student to hold one of the said bursaries while holding any other bursary or scholarship.

Eighth.—If for any reason any one of said bursaries should fall vacant during its tenure, it shall be declared open again for a new full period at the first suitable time.

Ninth.—The said bursaries shall be open as from the commencement of the University Session of 1914-1915 and shall be paid in advance, one half on 1st October and the other half on 1st February in each year.

Tenth.—The trustees shall have full power from time to time to alter or add to the foregoing Rules and Regulations as they may think proper, and may alter the number or amount of the said bursaries from time to time, and any surplus of income accruing from any cause may either be used for these purposes or added to the capital of the foundation, as the trustees may decide.

¹ It is intended to give a fifth bursary to students in the Mining branch of said Faculty as soon as an Ordinance constituting such branch is passed and in force.

Archibald or M'Guffie Bursary.

Copy of part of the Trust Disposition and Settlement, dated 16th September 1905, of the late Rev. George M'Guffie, F.S.A., Scot., sometime Minister of the English Presbyterian Church at Etal, Northumberland, latterly residing at Ochildene, Bridge of Earn, who died on 21st April 1914.

Eighthly.—I hereby bequeath to the University Court of the University of Edinburgh the sum of £1000,¹ free of legacy duty and expenses, for the purpose of establishing a bursary to be called "The Archibald or M'Guffie Bursary," the said sum to be invested by said University Court, and the revenue thereof annually paid to one or more students of Arts, Medicine, or Divinity in said University, a preference being always given to students bearing the name of "Archibald" or "M'Guffie," who have been born in either of the parishes of Dollar, Tillicoultry, or Whithorn, or educated in any of the schools of these parishes; and, failing such applicants, a preference shall be given to any youths born in any of said parishes, or educated in any of said schools, although not bearing either of said names, and that on such terms and under such conditions as to competition or otherwise and for such periods as the said University Court shall think fit.

STATISTICS OF THE RECTORIAL ELECTIONS, 1859-1911.

	Matriculated Students
1859. Gladstone, 642; Neaves, 527	1302.
1862. Gladstone (<i>unopposed</i>)	1331.
1865. Carlyle, 657; Disraeli, 310	1288.
1868. Moncrieff, 607; Ruskin, 425	1398.
1871. Maxwell, 594; R. Palmer, 502	1533.
1874. Derby, 770; Playfair, 583	1767.
1877. Hartington, 932; Cross, 684	2102.
1880. Rosebery, 1024; Christison, 985	2496.
1883. Northcote, Blackie, Trevelyan	2660.
1886. Iddesleigh, 1094; Playfair, 747	2680.
1887. Lothian (<i>unopposed</i>)	2493.
1890. Goschen, 1378; Russell, 805	3038.
1893. Robertson, 1145; Reay, 728	2649.
1896. Balfour, 990; Haldane, 771	2414.
1899. Dufferin, 943; Asquith, 686	2416.
1902. Finlay, 916; Grey, 621	2475.
1905. Haldane, 877; Dunedin, 847	2643.
1908. Wyndham, 826; Churchill, 727; Osler, 614	2698.
1911. Minto, 1182; Crewe, 960	2885.

¹ Increased, by Codicil, to £2000.

STATISTICS OF PARLIAMENTARY ELECTIONS.

1868. Voted in Edinburgh—Playfair, 1753 ; St Andrews, 569—total, 2322. Campbell Swinton—Edinburgh, 1510 ; St Andrews, 557—total, 2067. Majority for Playfair, 255. No. of Voters on Register—Edinburgh, 3652 ; St Andrews, 1228—total, 4880.
1873. Playfair (*unopposed*).
1874. Playfair (*unopposed*).
1880. Playfair—Edinburgh, 1981 ; St Andrews, 541—total, 2522. Bickersteth—Edinburgh, 1638 ; St Andrews, 810—total, 2448. Majority for Playfair, 74. No. of Voters on Register—Edinburgh, 4386 ; St Andrews, 1580—total, 5966.
1885. Macdonald—Edinburgh, 2051 ; St Andrews, 789—total, 2840. Erichsen—Edinburgh, 1985 ; St Andrews, 468—total, 2453. Majority for Macdonald, 387. No. of Voters on Register—Edinburgh, 5158 ; St Andrews, 1507—total, 6665.
1886. Macdonald (*unopposed*).
1888. Stormonth Darling (*unopposed*).
- 1890 and 1892. Pearson (*unopposed*).
1896. Priestley (*unopposed*).
1900. Tuke (*unopposed*).
1906. Tuke—Edinburgh, 4212 ; St Andrews, 681—total for Tuke, 4893, Strachey—Edinburgh, 1967 ; St Andrews, 343—total for Strachey, 2310. Majority for Tuke, 2583. No. who voted in the Election, 7203. No. on Edinburgh Register, 9870 ; No. on St Andrew, Register, 1554—total, 11,424.
- 1910 (January). Finlay—Edinburgh, 4523 ; St Andrews, 682—total for Finlay, 5205. Simpson—Edinburgh, 2335 ; St Andrews, 358—total for Simpson, 2693. Majority for Finlay, 2512. No. who voted in the Election, 7898. No. of voters on Edinburgh Register, 8640 ; No. on St Andrews Register, 1702—total, 10,342.
- 1910 (December). Finlay (*unopposed*).

EDINBURGH UNIVERSITY UNION.

President—A. J. Ferguson, M.A. *Hon. Secretary*—D. Patterson Blades, M.A. *Assistant Secretary*—J. J. Mills. *Treasurer*—James Walker, C.A., 25 Frederick Street. The *Committee of Management* consists of members from the *Senatus*, the *General Council*, and *Matriculated Students*.

Membership of the Union is open to all gentlemen who are (1) Matriculated Students ; (2) Members of the University Court ; (3) Members of the *Senatus Academicus* ; (4) Members of the General Council ; or (5) Graduates of the University not being members of the General Council.

The purpose of the Union is "the provision and maintenance of means of social and academic intercourse for its members." The Buildings occupy a situation near both the New and the Old University Buildings, and with the extensions which have been erected have cost £41,000. The rooms include a large debating-hall (capable of holding 500 persons), in which debates and numerous social functions are held during the Winter Session, a spacious dining-hall, and a large library, with galleries specially adapted for study. There are also large conversation, reading-, and writing-rooms, various committee rooms, billiard room with four billiard tables, and smoking-room. The reading-rooms are amply supplied with newspapers, and with the weekly, monthly, and quarterly periodicals. The library contains University and Class Text-Books. In addition there are also two "fives" courts, photographic rooms, a thoroughly modern kitchen and service accommodation, and a well-situated conservatory and roof garden.

Terms of Membership.—Payment of an entry-money of 5s.; and an annual subscription of (1) £1, 1s. if a Matriculated Student: or (2) £2, 2s. if not a Matriculated Student.

University Societies are granted certain privileges for the transaction of business in the Union.

A system of corresponding membership exists with the University Unions of Oxford, Cambridge, Durham, Manchester, Glasgow, Aberdeen, St Andrews, Dundee, and Belfast.

Debates are held during the Winter Session, including Inter-University debates with Cambridge and Durham Union Societies, and Glasgow, St Andrews, and Aberdeen University Unions, and the Historical Society, Trinity College, Dublin.

The membership is at present nearly 1600, of whom more than 1100 are student members.

WOMEN STUDENTS' UNION.

President—Miss E. B. Duke, M.A. *Hon. Secretary*—Miss A. C. Roberts, M.A. *Hon. Assistant Secretary*—Miss J. Paterson. And Committee of Management, consisting of fourteen members.

The movement to institute a Union for women students was started about nine years ago, and resulted in October 1905 in the opening of the present premises, situated at the corner of Bristo and Lothian Streets, within two minutes' walk of all University and Medical Buildings.

The Union includes a dining-room (where dinner, tea, and light refreshments are provided at moderate charges), a drawing-room (well supplied with magazines and newspapers), and a reading-room: and on occasion the three can be thrown into one, so as to form a hall in which Social Functions, Debates, etc., are held.

The annual subscription for ordinary members is 10s., the subscription for life members is £4, 4s.

The membership of the Union is over 200, and the Union has come to be regarded as an integral part of the University life of the women students.

THE CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND.

Regulations for Assistance in the Payment of Class Fees in the Universities and Extra-Mural Colleges of Scotland.

I. AGE.—Applicants must be over sixteen years of age.

II. NATIONALITY.—Applicants must be of Scottish birth or extraction, or must have given two years' attendance after the age of fourteen at a school or institution under inspection of the Scotch Education Department.

III. PRELIMINARY EDUCATION.—Applicants qualified under the two previous regulations, who have been pupils of schools under the Scotch Education Department, will be eligible for assistance in the payment of class fees, if they have obtained the Leaving Certificate of the Department, provided that it bears evidence of such preliminary education as is required by the Universities for their respective graduating curricula, or if it does not, provided that it has been supplemented by such passes, either in the Scottish Universities Preliminary or other Examination, as will satisfy the above requirement of the Universities.

Where applicants have not been pupils of schools under the Scotch Education Department, or where other good ground for not having obtained the Leaving Certificate can be shown, the Executive Committee have power to accept instead what they deem equivalent evidence of attainments, in the shape of passes gained either in the Scottish Universities Preliminary or other examination, provided that no applicant will be considered eligible who has to pass any further preliminary examination before completing his graduation curriculum.

IV. COURSE OF STUDY.—Applicants must have had their course of study for each academic year approved by the University Adviser of Studies, or, in Faculties where no Adviser of Studies has been appointed, by the Executive Committee of the Trust.

V. ORDINARY CLASSES.—Applicants are not eligible for assistance in the payment of fees of classes belonging to a further stage of their curriculum until they have passed the graduation examinations belonging to a previous stage.

VI. EXTRA-ORDINARY CLASSES.—Applicants are not eligible for assistance in the payment of fees of other than ordinary qualifying classes until they have passed the ordinary graduation examination in the relative subject.

VII. REPORTS ON ATTENDANCE AND WORK.—Beneficiaries come under an obligation to submit to the Executive Committee at the end

of each session particulars as to their attendance and work, any distinctions they may have gained, and any graduation examinations they may have passed.

VIII. CLASS CERTIFICATES. -- Beneficiaries also come under an obligation to refund the fee of any class in which they have failed to obtain a certificate that they have given regular attendance and duly performed the work of the class during the session.

Attention is specially directed to Regulations III. and IV.

Amount of Annual Allowances.

The Annual Allowances towards payment of Class Fees offered to beneficiaries by the Trust in the various Faculties are as follows:—in Arts (Ordinary), £9 a year for three years, or (Honours) £9 a year for four years; in Science, £12 a year for three years; in Medicine, £15 a year for five years; and in Law, Divinity, and Music, £6 a year for three years. Any unexpended part of a Grant will be carried forward to the succeeding year.

In combinations of Faculties the allowances available for beneficiaries are:—(1) Arts and Science, two Arts Grants of £9 and three Science Grants of £12, in all £54; (2) Arts and Medicine, two Arts Grants of £9 and five Medicine Grants of £15, in all £93; (3) Science and Medicine, two Science Grants of £12 and five Medicine Grants of £15, in all £99: payment to be made in the order above stated.

Note.—Applications for payments of Class Fees to be addressed to the Secretary to the Trust, 22 Hanover Street, Edinburgh. Applicants, in writing for Application Forms or Class Lists, must name the University and Faculty in which they intend to study, and must state whether they have or have not previously obtained the benefits of the Trust.

THE EDINBURGH VACATION COURSES

In Idiomatic English, and English Literature

Are held within the University in August. About 150 foreign students attend them, and many of the lectures and meetings are adapted for and attended by British students also. The courses include twenty lectures on Idiomatic English (for foreigners), by Professor Kirkpatrick, and a like number of practical lessons also for foreigners. They further include courses of ten lectures each on selected English writers, by Mr A. A. Jack and Mr W. L. Currie, suitable for both British and foreign students. There are also regular evening meetings for social purposes and the hearing of popular lectures, and Saturday excursions to Melrose, The Trossachs, etc. *Hon. Secretary*—Prof. Kirkpatrick, LL.D. *Acting Secretary and Treasurer*—J. J. Waugh, W.S., 43 George Street, Edinburgh.

**EDINBURGH POST-GRADUATE COURSES IN MEDICINE,
IN CONNECTION WITH THE UNIVERSITY AND ROYAL
COLLEGES**

The following Courses are held during July, August, and September 1914 :—

A General Course (divisible, if desired, into two independent fortnights), which will extend from 31st August to 26th September. This will include Medical and Surgical Clinics, Medical Applied Anatomy, Clinical Courses in Neurology, Diseases of the Skin and Eye, Fevers, Gynecology, Diseases of Children, and Practical Courses on the Blood, Bacteriology, X-Rays, etc. In addition, a series of Special Lectures will be delivered, on subjects of current interest, by prominent members of the school.

A Surgical Course (attendance limited to thirty), from 31st August to 26th September, which will include Surgical Applied Anatomy, Surgical Pathology, Operative Surgery, Surgical Clinics, etc.

A Course on Internal Medicine (attendance limited to twenty-five), from 3rd to 28th August. This will include a series of Clinics upon Diseases of the various systems, with Practical Classes upon Applied Anatomy, Hæmatology, Bacteriology, and the examination of the Heart, Urine, and Digestive Products, Nervous System, and X-Ray Diagnosis.

A Course on Diseases and Defects of Children (attendance limited to twenty-five), from 20th July to 1st August. This Course, which will be suited for Medical Inspectors of School Children, will include Medical and Surgical Clinics, and Special Clinics on Diseases of the Skin, Eye, Ear, Nose and Throat, Teeth, and Mental Defects; also practice in Anthropometric methods.

A Special Course on Obstetrics and Gynecology (attendance limited to ten), from 20th July to 1st August.

A Special Course on Diseases of the Ear, Nose, and Throat, from 31st August to 26th September, intended for those specialising in this subject (attendance limited to ten).

A Special Surgical Course on the Genito-Urinary Tract (attendance limited to fifteen), during the second fortnight of September.

Arrangements have been made whereby those attending the September Courses may obtain accommodation and board in one of the Residences of University Hall.

Gentlemen attending the Courses are eligible for temporary membership of the University Union.

A Syllabus, containing all particulars, may be obtained from the Secretary, University New Buildings, Edinburgh.

ROYAL MEDICAL SOCIETY, EDINBURGH, 7 Melbourne Pl.**Founded 1737. Royal Charter Granted 1778.**

Presidents—W. A. Alexander, M.B., Ch.B. (Senior); J. F. C. Haslam, M.B., Ch.B.; Sydney Smith, M.B., Ch.B.; J. H. Boag, M.B., Ch.B.
Secretaries—P. A. Bennet Clark, M.B., Ch.B.; S. C. Huddleston.
Curator of Library—G. A. G. Macdonald. *Sub-Librarian*—A. P. Ormiston.

The Society meets in its hall every Friday evening during the Winter at 8.10 P.M. Public business commences at 9.30 P.M. At these meetings dissertations on medical subjects are read and debated, communications by members on subjects of interest discussed, and patients are shown. The Society possesses a very fine library, containing about 30,000 volumes, which is constantly being added to, and a new card catalogue has now been made and brought up to date. There are comfortable writing- and reading-rooms, which have recently been entirely refurnished, with all the medical journals, periodicals, and books of reference as well as current text-books. The museum contains a complete collection of *Materia Medica* specimens, a considerable number of recently mounted pathological specimens, and complete sets of microscopical slides of pathological conditions and normal histology, especially useful to students reading for the examinations in Pathology and Physiology respectively.

There is also a surgical model for bandaging, etc., and an obstetric one for practice in midwifery.

Students of medicine are eligible to apply for election to membership during and after their second year of study.

Communications should be addressed to the Secretaries, 7 Melbourne Place.

**ASSOCIATION FOR THE BETTER ENDOWMENT OF
THE UNIVERSITY OF EDINBURGH.**

President—The Right Hon. Arthur James Balfour, D.C.L., LL.D., M.P., Chancellor of the University. *Vice-Presidents*—The Right Hon. The Earl of Rosebery, K.G., P.C., K.T., LL.D.; Principal Sir William Turner, K.C.B., D.C.L.

Ordinary Members of Committee—Sir J. O. Affleck, M.D., F.R.C.P.E.; Walter B. Blaikie, Esq., LL.D.; Emeritus-Professor Crum Brown, M.D.; Emeritus-Professor Chiene, C.B., F.R.C.S.E.; Archibald Constable, Esq.; Sir Henry Cook, W.S.; Charles Cook, Esq., W.S.; Donald Crawford, Esq., K.C.; The Rev. Archibald Fleming, D.D.; Professor Sir T. R. Fraser, M.D.; Emeritus-Professor W. S. Greenfield, M.D.; Professor W. R. Hardie; John Harrison, Esq.; The Right Hon. Lord Kinnear, LL.D.; Professor Seth Pringle Pattison, LL.D.; George Smith, Esq., LL.D., C.I.E. *Hon. Secretary*—Sir Alexander Christison, Bart., M.D. *Interim Secretary*—J. J. Herdman, W.S., 6 Hill Street.

INTERNATIONAL-ACADEMIC COMMITTEES.

A Committee appointed by the Senatus, consisting of The Principal, Professors Eggeing, and Sir L. J. Grant, Bart. (Secretary of Senatus), Dr Sarolea, and Dr Schlapp, and also the International-Academic Committee of the Students' Representative Council, will be happy to give information and advice to Foreigners desirous of studying in the University of Edinburgh, and to Edinburgh University Students intending to study in foreign universities. Inquiries may be addressed to either of these Committees.

The Committee of the Students' Representative Council also maintains a unique system of International-Academic Consuls at the chief European and American Universities, to whom it issues Letters of Introduction. Applications should be addressed to the Convener, S. R. C. Office, University.

FRANCO-SCOTTISH SOCIETY.

Hon. Secretary—John Smart, W.S., 19 York Place, Edinburgh. *Hon. Treasurer*—J. J. Waugh, W.S., 43 George Street, Edinburgh. *Local Centre in Aberdeen*.—*Hon. Secretary*—G. T. Bisset Smith, 16 St Thomas' Road, Edinburgh. *Local Centre in Glasgow*.—*Hon. Secretary*—D. Baird Smith, Writer, 205 St Vincent Street, Glasgow.

An Inter-Academic Society for advising and assisting French students in Scotland and Scottish students in France. Grants will probably be awarded in the spring of 1915, on the conditions mentioned in the last year's Calendar; but a definite announcement will be made to students early in the year.

RESIDENCES AND BOARD FOR STUDENTS.

(Not under the control of the University Authorities.)

I. For Men Students.

UNIVERSITY HALL, which was founded more than twenty-five years ago by Professor Patrick Geddes for the benefit of Students in Edinburgh, now comprises four Houses, viz. :—

RAMSAY LODGE, 3-6 Ramsay Garden.
BLACKIE HOUSE, 8 North Bank Street.
ST GILES HOUSE, 22 St Giles Street.
LISTER HOUSE, 2 Mound Place.

The Houses are intended for the use of Students in any of the Faculties. They are well and fully furnished, and rents and expenses are reduced to as low a rate as possible, consistent with comfort and efficiency.

The rents range from 8s. to 18s. per week, payable by term or monthly in advance, and the board averages about 14s. per week, payable at the end of each month.

The main feature of University Hall is that the purely internal affairs of each House are conducted by the Residents themselves.

While fully recognising the benefits to be obtained at the great English Universities of Oxford and Cambridge, University Hall aims at something more than these.

That men may become self-reliant, all external interest is minimised, a knowledge of how to govern themselves and others, how to have consideration for their fellows and subordinates, is instilled by handing over the management of each House to its own Residents, while the only real objection to common residence is removed by giving to the men the right to decide by ballot who may become members of their particular House.

There have lived from time to time, in one or other of the Houses, Students and Graduates of Divinity, Law, Medicine, and Art; Professors and Extra-Mural Teachers; Explorers, Artists, Architects, and Army Officers, men of varied interests, who have found life here congenial and interesting.

The constitution of the Hall has been arranged so as to facilitate men of various professions and shades of opinion living together, so that by association one with another the culture of the Residents may be broadened.

Application for rooms should be made at the different houses. Application for information with regard to general questions on University Hall should be made to Messrs Whitson & Methuen, C.A., 21 Rutland Street, Edinburgh.

II. For Women Students.

(1) MASSON HALL, 31 and 32 GEORGE SQUARE. INSTITUTED 1897.

Hon. President—Principal Sir William Turner, K.C.B. *Hon. Treasurer*—Miss J. H. Wright. *Warden*—Miss F. H. Simson, M.A. *Hon. Secretary*—Mrs H. F. Cadell.

This Hall is situated in convenient proximity to the University and Medical Schools.

Non-resident students may become members of the Hall by a small annual subscription, and have access to the Library and to the Dining-Hall where meals are provided at moderate rates.

Terms for Board and Residence may be had on application to the Warden. A room for Students' Meetings can be provided by arrangement.

(2) MUIR HALL FOR STUDENTS OF THE UNIVERSITY OF ANY FACULTY, 12 GEORGE SQUARE.

President—Sir William Turner, K.C.B. *Vice-Presidents*—Mrs Findlay of Aberlour; Rt. Hon. Lord Guthrie. *Hon. Treasurer*—Mrs J. P. Watson. *Hon. Sec.*—Miss Inglis, M.B., C.M. *Lady Superintendent*—Miss Robertson.

The Hall is managed by a Lady Superintendent, is under the direction of a Committee of Management, and contains three Common Rooms and Private Rooms for Residents. The Private Rooms are

arranged as Study Bedrooms, and the charge varies according to the size and outlook, from £10 to £13, 10s. for the Term, including Board. The Residents have the use of the Square Gardens, where there are Tennis Courts. For particulars apply to the Lady Superintendent.

APPOINTMENTS COMMITTEE.

The University has instituted an Appointments Committee to assist and advise students and graduates in obtaining educational and other posts. Among the public services for which application may be made through the Committee are at present (1) Egypt and the Sudan Civil Service, (2) the Indian Educational Service, (3) Indian Public Works Department,¹ (4) Post Office Engineering Department,¹ (5) Agricultural Appointments under the Government of India and under the Colonial Governments.²

The Committee keeps a Register of Members of the University who desire to obtain places in the above services, or educational or other posts at home. The Committee will obtain, as far as possible, the testimony of Professors and Lecturers to whom such candidates may be personally known. They will also furnish information, if desired, to Schoolmasters and others who may desire to find suitable applicants for work. Notices of vacancies will be sent to candidates on the Register, and will be posted on the Appointments Committee Notice Board.

Candidates for the Home and Indian Civil Services who desire advice as to the course of study should apply to the Conveners of the Appointments Committee (Professor Hardie and Professor Lodge) or to the Official Advisers of the Faculty of Arts.

Forms of enrolment may be had on application to the Clerk to the Committee, Mr T. F. Harley, Matriculation Office.

TRAINING OF TEACHERS.

Graduates of this, or any other British University, may qualify as teachers in Elementary Schools by undergoing a one-year's course of training, as laid down in the Regulations of the Edinburgh Provincial Committee for the Training of Teachers. The course includes attendance on the University Class in Education and on other University courses of study.

Graduates in Arts with Honours in Classics, Mathematics, English, History, or Modern Languages may qualify as teachers of these subjects in Intermediate and Secondary Schools by undergoing the course of training prescribed by the Edinburgh Provincial Committee for the Training of Teachers. The course includes attendance on the University Class in Education and on other University courses of study.

¹ The Professor of Engineering can give detailed information regarding these posts, and also regarding vacancies in the Patent Office, and the Engineering and Architectural Department of the Admiralty.

² Detailed information may be obtained from the Professor of Agriculture.

Graduates in Pure Science (Natural or Physical) may also qualify as teachers of Science in Intermediate or Secondary Schools by undergoing a course of training similar to that indicated above.

Students desirous of following any of the above courses, with the view of qualifying as teachers, should apply to the Director of Studies, Committee for the Training of Teachers, 16 Chambers Street, Edinburgh, from whom full particulars may be obtained as regards the conditions of training.

See Regulations for DIPLOMA IN EDUCATION, page 243.

ST GEORGE'S TRAINING COLLEGE.

This College, which is incorporated under one constitution with St George's School for Girls (Incorporated), offers professional training to Women Students preparing to become teachers in Intermediate and Secondary Schools, including Preparatory and Kindergarten Departments.

The course of professional training at the College extends over one year, and includes attendance on the Course in Education in the University of Edinburgh.

The following bursaries, each tenable for one year, are offered to students entering in October 1914 :—

(a) A bursary of £30 offered to a graduate by the Trustees of the Gilchrist Educational Trust.

(b) A bursary of £30 offered to a graduate by the Governors of George Heriot's Trust.

(c) A bursary of £10 offered by Miss Urquhart.

(d) One or more bursaries may be offered by the St George's College Union of Former Students. These bursaries are open to non-graduates as well as to graduates.

For further particulars apply to Miss Stevenson, Principal, St George's Training College, Windmill Brae, Garscube Terrace, Edinburgh.

ALBERT KAHN TRAVELLING FELLOWSHIPS.

These Fellowships, two in number, are each of the value of £600; and are open to British students, graduates of, or persons who have passed the examinations required for a Degree in, some University in the United Kingdom: women as well as men being eligible. The objects of the Foundation are set forth by the Founder in the following terms :—"The essential object of the Founder of the Fellowships is in no sense to further any special line of individual, and, above all, academical research, but to enable men of proved intellectual attainments to enjoy, during one year or more, sufficient leisure and freedom from all professional pursuits or pre-occupations to enter into personal contact with men and countries they might otherwise never have known; in a word, to issue from the world of

books and their narrow sphere of habitual interests into the broader world of various civilisations, and all such human interests, struggles, and endeavours as go to the making of general civilisation."

The Secretary of the Trust is Mr Edwin Deller, LL.B., University of London, South Kensington, S.W. Edinburgh graduates who wish to enter should apply for nomination, in the first week of March, to Sir William Turner, K.C.B., Principal and Vice-Chancellor of the University.

KING EDWARD VII. BRITISH-GERMAN FOUNDATION. (United Kingdom).

A limited number of Studentships for the year 1915-1916 will shortly be awarded by the Council of the British Section of the Foundation.

These Studentships have been founded to enable University Graduates of British Nationality to reside in Germany for a limited period, for the purpose of studying some branch of Science or Literature, or becoming acquainted with the Commercial or Industrial life of the country.

The value of the Studentships ranges from about £100 to about £175, according to the means of the candidate and the circumstances of his intended residence.

Selected students will be expected either to obtain a German Academic Degree or Diploma, or produce a Monograph or other evidence of work duly performed.

Applicants are requested to send in their names to the Deans of their Faculties at a date which will be announced early in 1915.

Further information can be obtained from the Secretary of Senatus.

UNIVERSITY SOCIETIES AND CLUBS.

Associated Societies of the University.

This Association was instituted in 1833, and is a Union of Literary and Debating Societies. It is composed at the present date of five societies:—The Dialectic, Scots Law, Diagnostic, Philomathic, and Celtic Societies. The following is the list of the office-bearers of the Association, and of the respective component societies:—

Hon. President—Lord Haldane. *Hon. Vice-Presidents*—The Senatus Academicus of the University (*ex officio*). *Hon. Secretary*—Ian M'Hardy, M.A., Associated Societies' Hall.

(1) DIALECTIC SOCIETY OF EDINBURGH Instituted in 1787.

Presidents—J. M. Cowan; A. Murray Simpson; G. B. Ramsay.
Secretary—D. E. Calder. *Treasurer*—G. O. Lisle. *Delegates to the Associated Societies' Council*—A. Lang and the Secretary.

The Society meets in the Associated Societies' Hall every Thursday evening during the Winter Session, at 8 o'clock, for the prosecution of Literary and Philosophical Composition, Criticism, and Debate.

(2) SCOTS LAW SOCIETY. Instituted in 1815.

Presidents—James Keith, LL.B., Advocate; Neil A. MacLean, LL.B., Advocate; John F. Robertson, Solicitor. *Secretary*—J. O. Taylor, LL.B., Advocate, 26 Dufflin Street. *Assistant Secretary*—G. Murray Lawson, W.S. *Treasurer*—T. M. Cooper, LL.B., 42 St Alban's Road.

This Society meets every Monday evening during the Winter Session, at 8.30 o'clock, in the Associated Societies' Hall, University, for the purpose of debating Legal and Speculative Questions and reading Essays.

(3) DIAGNOSTIC SOCIETY. Instituted in 1816.

Presidents—Thomas Dunn, M.A.; D. L. L. Hume, M.A.; P. H. Borrowman, M.A.; J. G. Shearer, M.A. *Secretary*—F. C. Hood, M.A. *Assistant Secretary*—C. M. M. Hepburn. *Treasurer*—J. Corrigan.

This Society meets in the Associated Societies' Hall, on Tuesdays, at 8.30 P.M., for the purposes of debate and essay reading.

(4) PHILOMATHIC SOCIETY. Instituted in 1858.

Presidents—R. F. T. Mills (senior); A. C. Kennedy; W. C. S. Angus, M.A. *Secretary*—W. S. Morrison, University Union. *Treasurer*—J. H. M. Hardyman. *Assistant Secretary*—F. D. Hislop.

This Society meets in the Associated Societies' Hall every Friday evening during the Winter Session, at 8 P.M., for the purposes of debate and essay reading; and is open to all gentlemen who are, or have been, Matriculated Students of the University.

(5) CELTIC SOCIETY. Instituted in 1848.

Hon. President—Rev. Campbell MacGregor. *Presidents*—R. Alastair MacLean (Senior); Lachlan MacKinnon; Dugald Cameron. *Secretaries*—L. J. MacIver; W. Anderson. *Treasurer*—C. A. MacLean.

This Society meets every Saturday evening during the Winter Session, at 7 o'clock P.M. Students from the Highland Counties, and students with Celtic sympathies or connections, are specially invited.

AGRICULTURAL SOCIETY. Established 1858.

Hon. President—* * *. *President*—Primrose M'Connell, B.Sc. *Vice-President*—E. A. Bell, B.Sc. *Hon. Secretaries*—Charles A. M'Lean; Adam Millar. *Treasurer*—Thos. M. Swan.

The Society has for its object the diffusion of knowledge among its members by the reading of papers, and by discussions bearing on the Science and Practice of Agriculture.

The Society meets weekly during the Autumn and Spring Terms, the day and hour being arranged at the first meeting in each session.

ATHLETIC CLUB.

President—J. B. Young. *Vice-President*—Dr D. A. Ross Hadden. *Hon. Secretary*—J. Reay S. Mackay. *Hon. Assistant Secretary*—A. R. Hudson. *Hon. Treasurer*—John L. Somerville, C.A., 59 George Street (Telephone 2574).

Open to all Members and Graduates of the University, and to Members of the Extra-Mural School.

All communications should be addressed to the Hon. Secretary, E. U. Athletic Club, University Union, or to the Treasurer.

BORDERERS' ASSOCIATION. Instituted 1911.

Hon. Presidents—Sir George Douglas, Bart.; Prof. Pringle Pattison; Duncan Fraser, Esq., F.E.I.S. *Presidents*—Miss May Wilson (senior); W. A. Anderson; William Redpath. *Secretary*—Miss Agnes M. Wilson. *Treasurer*—J. H. S. Burleigh. *S.R.C. Representative*—Alex. Scott, M.A.

The Society meets for debates and discussions every alternate Friday, at 8 P.M., in the Non-Associated Societies' Room, during the Autumn and Spring Terms. Its object is to promote social intercourse among Border Students. Annual subscription, 2s. 6d.

CAITHNESS STUDENTS' ASSOCIATION. Instituted in 1856.

Hon. President—His Grace the Duke of Portland. *Hon. Vice-Presidents*—Robert Munro, Esq., K.C., M.P., Lord Advocate; Sheriff MacLennan, K.C.; R. L. Harmsworth, Esq., M.P.; Rev. Dr P. R. Mackay; Rev. Dr Miller, Buckie; John Sutherland, Esq., M.A.; William Nicolson, Esq. *Presidents*—John Mowat (senior); Geo. H. Sinclair. *Secretary*—Miss I. Cormack. *Treasurer*—John Mackay.

This Society is open to Caithness students in Edinburgh. The Society meets fortnightly, in the Old Education Class-Room, on Saturdays, at 7 P.M., for the purpose of debating.

CHEMICAL SOCIETY. Instituted 1874.

Hon. Presidents—Emeritus-Professor Crum Brown; Professor Walker. *President*—W. C. Taylor. *Vice-Presidents*—Miss E. B. Duke, M.A., B.Sc.; R. Coull. *Secretary*—C. H. E. Varndell. *Treasurer*—T. Mackenzie.

The Society holds fortnightly meetings during the Winter Session, alternately at 4 and at 8 P.M., in the Chemistry Tutorial Class-Room, New Buildings, for the reading and discussion of papers on Chemistry and allied Sciences. Meetings are held during the Summer Session, and frequent excursions to Chemical Works, etc., are made during the session. An extensive Library is available for reference and lending purposes.

CHRISTIAN UNION.

Hon. President—Prof. E. T. Whittaker, M.A., F.R.S., Sc.D. *President*—M. Dinwiddie. *Vice-President*—W. E. Thompson, B.A. *Secretary*—R. R. Watt. *Assistant Secretary*—T. D. Renwick. *Treasurer*—Alastair Shannon.

Rooms—19 Marshall Street (close to University Union).

The object is to form a bond of union among students, whose principles and aims in life are Christian, and to deepen the spiritual life of students in Edinburgh.

Social work of every kind is carried on in the University Settlement, while services are conducted by parties of students in the Wards of the Infirmary and in Poorhouses. In the Winter, services for students are held in the Operetta House, conducted by Dr Kelman.

Bible, Mission, and Social Study Circles are carried on among members, while Meetings for discussion and for prayer are also held. There is a Social Meeting at the beginning of each term.

This Union forms part of the World's Student Christian Federation, which links together the Christian Unions of almost every university and college in the world.

CLASSICAL SOCIETY. Founded 1898.

Hon. Presidents—The Professors of Greek and Latin. *Presidents*—J. C. Stewart, Esq., M.A.; H. A. R. Gibb. *Secretary*—J. Farquhar. *Treasurer*—Miss Sinclair.

The object of the Society is to further Classical study, and to promote social intercourse amongst Classical students in the University of Edinburgh. The Society meets for essays, debates, and discussions every second Wednesday evening, at 7.30 o'clock, in the Sellar and Goodhart Library. Membership is open to past and present Classical students of the University of Edinburgh.

DUMFRIESSHIRE AND GALLOWAY LITERARY SOCIETY. Instituted 1847.

Presidents—R. N. Robertson (senior); Alister Mackenzie, M.A.; D. W. McLean. *Joint-Secretaries*—W. F. Dickson, University Union; J. C. Young, c/o Ferguson, 18 Marchmont Crescent. *Treasurer*—Hugh C. Graham, c/o Crow, 23 Marchmont Crescent.

This Society is open to all students who are connected with Dumfriesshire or Galloway, or to such other persons connected with Dumfriesshire or Galloway, as may be admitted by unanimous consent at an ordinary meeting of the Society. The Society meets in the Public Law Class-Room of the University every Saturday during the Autumn and Spring Terms, at 7 P.M. Annual subscription, 2s. 6d.

ECONOMIC SOCIETY.

Hon. President—Prof. J. S. Nicholson, M.A., DSc. *Hon. Vice-Presidents*—Prof. Lodge, M.A., LL.D.; Will. C. Smith, Esq., K.C.; D. P. Heatley, Esq. *President*—G. H. Schnieder, M.A. *Secretary*—W. M'K. Mitchell, University Union. *Treasurer*—T. A. Joynt, M.A.

The Society meets fortnightly for the discussion of economic problems. Membership is open to all present and past students of the University. Subscription, 2s.

EDUCATION SOCIETY. Instituted 1904.

Hon. President—Professor Darroch. *Hon. Vice-Presidents*—Dr Gunn; Dr Morgan; James Drever, M.A., B.Sc.

This Society meets fortnightly during the Session, on Thursday, at 7 P.M., in the Non-Associated Societies' Room, for the purpose of discussing educational problems and for the furtherance of interest in education. The first meeting in Session 1914-15 will be held on the second Thursday of the Session.

ENGINEERING SOCIETY. Instituted 1901.

Hon. Presidents—Professor Hudson Beare and Professor Stanfield. *President*—University: D. M. Fraser. *Secretary*—University: H. G. G. Pender. *Treasurer*—Professor F. G. Baily.

The Society holds meetings twice monthly during the Winter Session, for the reading and discussion of papers on subjects of Engineering interest. The Society possesses a reading-room, supplied with the leading technical journals.

Excursions to Engineering works are also arranged.

ENGLISH LITERATURE SOCIETY. Instituted 1911.

Hon. Presidents—Prof. Saintsbury; A. Blyth Webster, Esq., M.A.; Rev. John Kelman, D.D.; Miss Rosaline Masson. *Presidents*—Miss B. Wright, M.A. (senior); Miss Maybel Benvie, M.A.; R. K. M. Simpson, M.A. *Secretary*—Miss Clarke, M.A., 31 George Square. *Assistant Secretary*—F. D. Hislop. *Treasurer*—Hector Paterson. *S.R.C. Representative*—Miss D. Ashcroft, M.A.

The object of the Society is the encouragement and promotion of the study of literature and subjects connected therewith. Last session the Society staged Dekker's "Shoemaker's Holiday." This is the second of what it is hoped to make a series of annual representations of seventeenth century plays in the University. Membership is open to all matriculated students, past and present.

The Society meets on Thursdays. Annual subscription, 2s. 6d.

FORENSIC CLUB.

Hon. President—W. J. Lewis, Esq., S.S.C., Lecturer on Procedure and Evidence in the University of Edinburgh. *President*—Robert Archibald, LL.B. *Vice-Presidents*—James Sinclair; William Begg. *Hon. Secretary*—George Smith, 21 St Andrew Square, Edinburgh. *Hon. Assistant Secretary*—James Wilson. *Hon. Treasurer*—F. C. Gibb, 30 Inverleith Terrace, Edinburgh.

This Club is confined to gentlemen of the legal profession, who are or have been matriculated students of a Scottish University. The Club meets fortnightly, on evenings arranged at its annual meeting in October (but generally Thursdays). The subscription is 2s. 6d.

The Syllabus includes an address by an eminent member of the profession, a jury trial, a hearing before a bench, debates on cases and questions both legal and speculative, and papers on some practical subject. Opportunities are also given at its meetings for the discussion of difficult questions arising in daily practice, submitted by members.

FRENCH SOCIETY.

Hon. President—Dr Sarolea. *Hon. Vice-Presidents*—Emeritus-Professor Kirkpatrick; Professor Saintsbury; Dr Schlapp; Dr Ritchie; H. F. Eggeling, M.A. *President*—J. R. Kinnes, M.A. *Vice-President*—Miss Mackenzie. *Secretary*—Miss A. Cormack. *Treasurer*—Miss Roy.

The object of the Society is the furtherance of the study of French, and of social intercourse among the students of French in Edinburgh University. The meetings, which take the form of dramatic readings, debates, and papers on French literary, social, and political questions, are held fortnightly during the autumn and spring terms, on Wednesdays, at 5 P.M., in the Gibson Library. Meetings will probably be arranged for in the Summer Term. Membership is open to past and present students of the University, and to non-students who may be proposed and seconded by student members. Annual subscription, 2s. 6d.

GERMAN SOCIETY. Instituted 1899.

Hon. President—Dr Otto Schlapp. *Hon. Vice-Presidents*—Professors Niecks, Pringle Pattison, Patrick, Hume Brown, Darroch, Eggeling, and Sampson; Drs Sarolea, Scholle, Lees, Ritchie, H. F. Eggeling, M.A.; and Mrs Christie-Crawford, née T. S. S. Gibson. *President*—Mr Henderson. *Vice-President*—Miss Rodney Murray. *Secretary*—Miss Eva Stewart. *Assistant Secretary*—Miss Robertson. *Treasurer*—Mr Burgoyne.

This Society exists for the purpose of uniting in social intercourse the students of German in the University, and for promoting the study of German.

During the Winter Session, papers are read on topical subjects, while debates, German concerts, dramatic recitals, and social meetings, form other features of the programme. Past or present members of the University are eligible for membership. Annual subscription, 2s. 6d.

HISTORICAL SOCIETY. Instituted 1897.

Hon. Presidents—Prof. Lodge, Prof. Hume Brown, D. P. Heatley, Esq., Prof. Mackinnon, Prof. J. H. Millar, Prof. G. Baldwin Brown, G. G. Chisholm, Esq., M.A., B.Sc. *Presidents*—Laurance Saunders (senior); John C. Grierson; John Younie. *Secretary*—John W. Oliver. *Treasurer*—Donald Macpherson.

This Society meets throughout the three terms in the History Library, on Wednesdays, at 8 P.M., for the purpose of historical study and research, of debating problems chiefly in mediæval and modern history, and of investigating the trend of modern politics. As far as possible the order of the discussions runs continuously with the work that is being done by the History Classes. Subscription, 2s. 6d.

INDIAN (EDINBURGH) ASSOCIATION. Instituted 1883.

President—M. A. L. Sayeed. *Vice-President*—R. M. V. S. Rao, M.A.—*Hon. Secretary*—M. D. Thakore. *Hon. Treasurer*—D. R. Thapar. *Hon. Assistant Secretary*—N. Khan. *Representative in S.R.C.*—R. K. L. Nandkeolyar.

The Association's premises are situated at 11 George Square, and contain a debating-hall, a reading-room with many of the Indian and British newspapers and periodicals, a smoking- and conversation-room, reading- and writing-rooms, a billiard-room, and a guest-room.

The objects of the Association are—

- (1) To promote and make provision for social intercourse among Indians resident in Great Britain and Ireland.
- (2) To afford them every assistance.
- (3) To hold academic debates, and read and criticise essays.

All Indians (ladies included) resident in Great Britain and Ireland are eligible for membership.

The annual subscription is 10s. 6d.; entry fee 5s. Fortnightly meetings are held throughout the Winter and Summer Sessions.

JEWISH SOCIETY.

Hon. President, Chief Rabbi—Dr Hertz. *President*—C. Resnekov. *Secretary*—C. Shapiro. *Treasurer*—J. Wolfson.

The aim of this Society is to foster and stimulate social intercourse among Jewish students. Subjects mainly of Jewish interest are discussed at the meetings.

The Society meets fortnightly on Saturdays at 7.30 P.M. in the Non-associated Societies' Hall.

MISSIONARY ASSOCIATION. Instituted 1825.

Hon. President—Rt. Hon. A. J. Balfour, M.P. *Hon. Vice-Presidents*—Rev. Prof. Paterson, D.D.; Rev. Prof. Patrick, D.D.; Rev. Prof. Kennedy, D.D.; Rev. Prof. Mackinnon, Ph.D.; Rev. Bruce M'Ewen,

D.Phil. *President*—J. Inglis, M.A. *Vice-President*—P. Borrowman, M.A. *Hon. Treasurer*—W. Melvill Sym, Esq., C.A., 49 Castle Street. *Assistant-Treasurer*—R. F. Wilson, M.A. *Secretary*—J. Younie, M.A. *Assistant-Secretary*— * * *

The Association meets in the Theological Library on alternate Mondays, at 3 P.M.

MUSICAL SOCIETY. Founded 1866-67.

Patron— * * * * *President*— * * * *
Vice-Presidents—Principal Sir William Turner, K.C.B.; Emeritus-Professors Niecks, Crum Brown, and Kirkpatrick; Professors Hudson Beare, Caird, Sir Ludovic J. Grant, Bart., Hepburn, Lodge, Pringle Pattison, Sir Edward A. Schäfer, Wallace, and Wyllie; Rt. Hon. Lord Provost Inches, Dr Otto Schlapp, and John Kirkhope, Esq. *Hon. or Corresponding Vice-Presidents*—The President of Aberdeen University Musical Society, and Professor Villiers Stanford, Cambridge. *Hon. Secretaries*—C. G. Kennaway, M.A., University Union, and Herbert Bell, M.A., B.Sc., Nat. Phil. Dept. *Hon. Treasurer*—Thos. F. Harley. *Hon. Librarian*—W. Hume Kerr, M.A., B.Sc. *Conductor*—James A. Moonie.

The Chorus (male and female) meets for practice weekly during the Winter Session in the Music Class-Room, Park Place, on Tuesdays, at 5.10 P.M. Subscription, 2s. 6d. Annual Concert on the first Friday in March.

OFFICERS' TRAINING CORPS. See Military Education Section, page 620.

ORCADIAN ASSOCIATION.

Hon. President—Dr Tait. *President*—J. Miller, M.A. *Vice-President*—A. Baldwin. *Secretary*—Miss M. Jarvie, 47 Viewforth. *Assistant Secretary*—Miss A. M. Cooper. *Treasurer*—Miss M. M. G. Hourston. *S.R.C. Representative*—S. R. Donaldson, M.A., B.Sc.

This Association was instituted in 1901 for the purpose of bringing together students connected with Orkney; and in 1912 its membership was extended to those connected with Shetland, in order that intercourse might be promoted amongst students from both sections of the county. It engages in debates upon literary, scientific, and general subjects.

The Association meets in the Celtic Class-Room at 6.30 P.M., on alternate Saturdays, during the Autumn and Spring Terms. The annual subscription is 2s. 6d.

PHILOSOPHICAL SOCIETY. Instituted 1871.

This Society meets on Tuesday evenings, at 8.15, during the Autumn and Spring Terms, for Philosophical Discussion. For information apply to Secretary, c/o R. P. Hardie, 13 Palmerston Road.

PHYSIOLOGICAL SOCIETY. Instituted 1904.

President—Professor Sir E. A. Schäfer. *Vice-Presidents*—Drs Pringle, Tait, and Krause; R. G. Bannerman, M.A., and Miss Macnaughton, B.Sc.
Hon. Secretary—J. L. Owen. *Hon. Assistant Secretary*—F. Holmes.
Treasurer—J. L. Hill. *S.R.C. Representative*—J. E. MacCartney.

This Society meets at least once a month during the Winter Terms, and once or twice during the Summer. The meetings are held on Wednesdays, at 8 o'clock, in the Hughes Bennet Class-Room, for papers and discussions.

The Society is open to all students interested. Annual subscription, 1s.

RIFLE COMPANY SHOOTING CLUB. Instituted 1873.

Hon. Presidents—Principal Sir William Turner, Professor Bayley Balfour, and Lieut.-Col. Hope.

This Club is open to members of Inf. Contingent, E.U.O.T.C. Weekly competitions are held at Hunters' Bog, and an Annual Prize Competition in July, at which numerous prizes are given. A silver teaspoon is given for each weekly competition.

All young shots receive careful coaching.

**RIFLE MATCH (SCOTTISH INTER-UNIVERSITY).
Instituted 1880**

Edinburgh Committee—Lieut.-Col. J. A. Hope, T.F. Reserve, 19 Charlotte Square; Captain J. R. Bruce, E.U.O.T.C. (Inf.); Captain F. Ramage, 4th R.S. (Queen's Edinburgh); Maj. Howden, E.U.O.T.C. (Art.). *Hon. Secretary*—Captain J. R. Bruce, 59 Great King Street.
Captain of the Team—Lieut.-Col. J. A. Hope.

The Inter-University Challenge Trophy is shot for annually by the four Scottish Universities at a neutral range. Each University sends a team of ten men of whom at least five must be matriculated students at the date of the match, and the remainder must have attended a class in the University for at least one session. Students willing to shoot are requested to communicate with the Secretary.

RUSSIAN SOCIETY.

President—Sergei L. Dmitrieff. *Secretary and Treasurer*—Boris Hessen.

The object of the Society is to promote social relations among students from Russia. Meetings are held at 4 Bristo Place.

**STUDENT VOLUNTEER MISSIONARY UNION
(Edinburgh Branch).**

Rooms, 19 Marshall Street.

This Society was founded in 1892 for the purpose of bringing into touch with one another and banding together all students who intended to become Foreign Missionaries, and so increase missionary interest amongst students and in the churches.

To fulfil the first of these objects Reunions are held once a month during the Winter and Summer Sessions, at which addresses are given and discussions held on matters of interest and importance to intending Missionaries.

The second is attained by working with the Christian Union in forming Mission Study Circles, and by addressing meetings in various churches as opportunities arise.

Membership is open to students of the University and Colleges who sign the declaration, "It is my purpose, if God permit, to become a Foreign Missionary."

The Secretary will gladly afford further information regarding the Union.

SUMMER DEBATING SOCIETY. Instituted 1903.

Presidents — Miss Chalmers; W. C. S. Angus; Miss Thorburn.
Secretary — Miss H. G. Young. *Assistant Secretary* — Miss Glass.
Treasurer — Miss Rose. *S.R.C. Representative* — Miss A. M. Cunningham.

The Society meets every Wednesday evening during the Summer Session, at 8 o'clock, in the Non-Associated Societies' Hall, for the purpose of holding debates. The membership is open to all who have matriculated at Edinburgh University.

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This unit is composed largely of Highlanders resident in Edinburgh, and is clothed in the Highland uniform similar to that of the Highland Regiments of the line.

"H" Company is formed of University students in any of the Faculties, and all British students are eligible. The training and conditions of service are as laid down for the Territorial Force, of which the following is an outline for annual efficiency, viz., 10 drills of one hour each (recruits, 40), musketry, and camp. The term of enlistment is four years. The annual subscription to the private funds of the Company is 2s. 6d., payable on 1st April. Further particulars may be obtained from the members of the Company and at Headquarters.

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Membership is open to present and to past male students of Theology at this University. The Society meets in the Theological Library on Thursday evenings during the Winter Session, at 8 P.M., for essays, debates, and discussions on subjects of Theological and Ecclesiastical interest.

UNITED FREE CHURCH (Edin. Univ.) SOCIETY.

Formed 1900.

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This Society meets on Saturday evenings in the Hebrew Class-Room, New College, at 7 P.M.

Membership is open to all past or present students of the University, or of any Extra-mural College or School recognised by the University; provided such students are members or adherents of the United Free Church. Annual subscription, 2s. 6d.

For further particulars, see *Students' Handbook*.

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The aim of this Union is to unite women students in Christian fellowship, and its basis is that of the Student Christian Movement. Meetings are held for Bible, Social, and Missionary study, and assistance given in Social Service Work. A General Meeting is held in the Non-Associated Societies' Hall on the second Thursday of every College month. Membership is open to all matriculated women students of Edinburgh University, past and present, who desire to promote these aims.

WOMEN'S DEBATING SOCIETY. Instituted 1893.

Presidents—Miss J. K. Rose, M.A. (senior); Miss M. Martin; Miss I. King. *Secretary*—Miss Nan D. Knott, Women Students' Union. *Treasurer*—Miss Fothergil.

The Society meets every second Friday during the Winter Session, in the Non-Associated Societies' Hall, at 5 P.M., for debate and literary criticism. The membership is open to all women who have matriculated in Edinburgh University and in the School of Medicine for women.

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